



Columbia University  
in the City of New York

BARNARD COLLEGE

CATALOGUE,

1903-1904

ANNOUNCEMENT,

1904-1905



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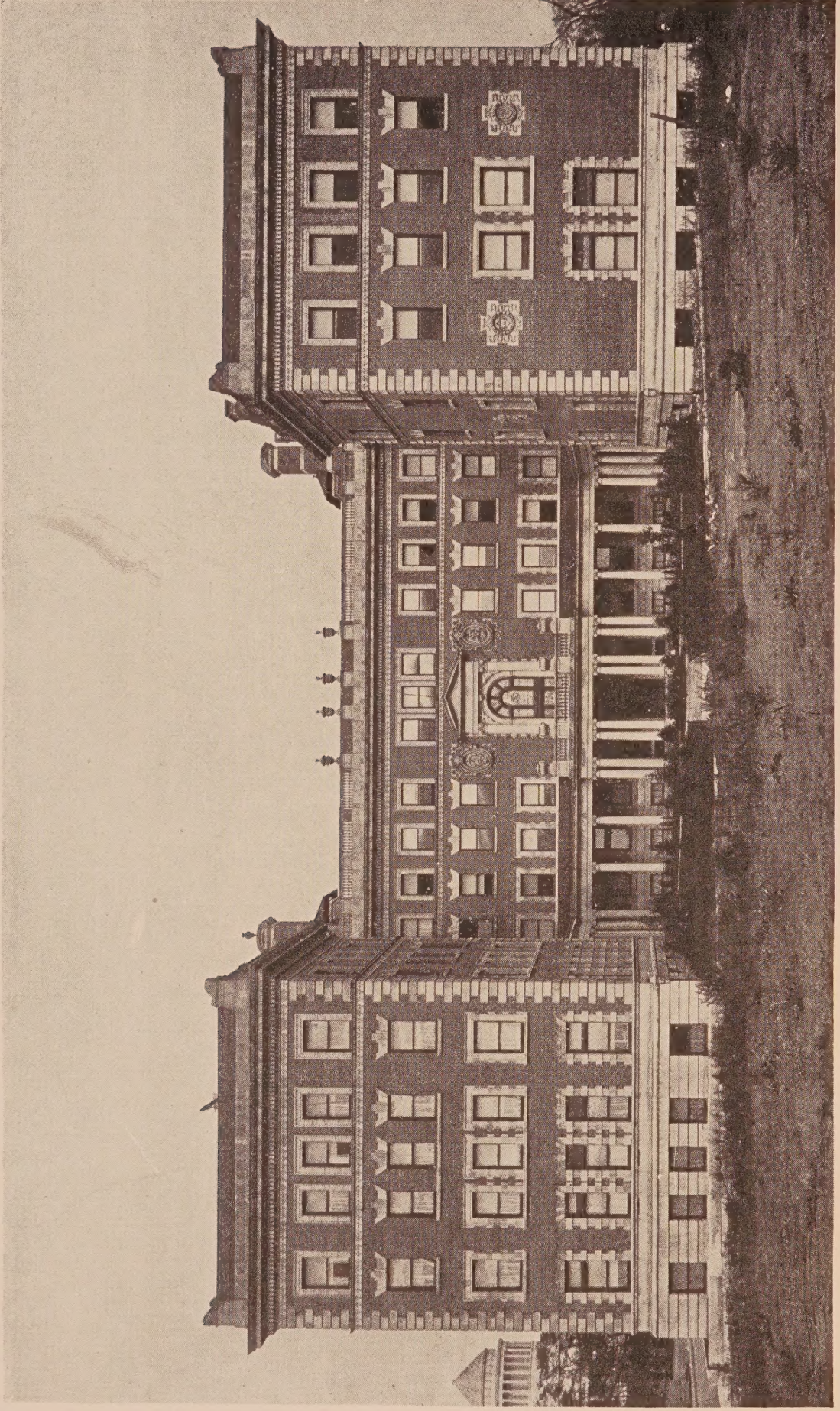






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Columbia University  
Bulletin of Information

BARNARD COLLEGE

CATALOGUE

1903-1904

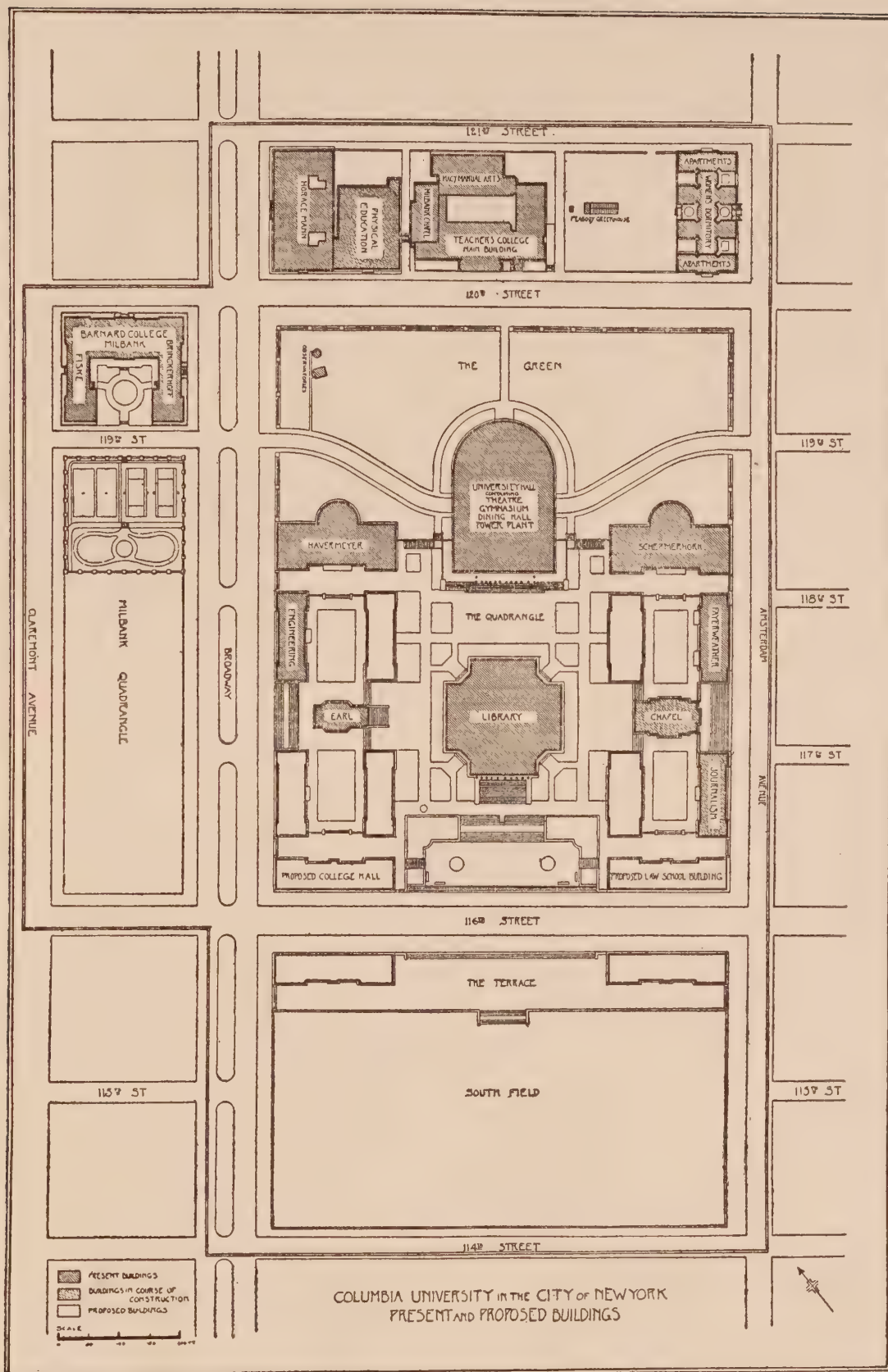
ANNOUNCEMENT

1904-1905

April, 1904











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\* JAMES T. SHOTWELL, Ph.D., *Instructor in History*

GEORGE WILLIS BOTSFORD, Ph.D., *Instructor in Ancient History*

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\* Absent on leave.

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 FRANK E. WARD, *Organist*

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## THE RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY

According to the agreement made January 19, 1900 (which is printed in full in the appendix), between the Trustees of Columbia College in the City of New York and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex-officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the Senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately pro-

vided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

#### **Teachers College**

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, regular students of Teachers College are permitted to attend courses in Barnard College. Teachers College offers reciprocal advantages to the students of Barnard College. Courses which are counted towards a Teachers College diploma and are open to Seniors of Columbia College are also open to Seniors of Barnard College.

## ADMISSION

The Committee on Admission has charge of everything relating to this subject.

Candidates for admission to the Freshman class must, at the time of entrance, be at least fifteen years of age; and for admission to advanced standing a corresponding increase of age is required; but exceptions to this rule may be made when, in the opinion of the Committee on Admission, there are reasons sufficient to justify them.

Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen, and students from other institutions must bring certificates of honorable dismissal.

### Requirements for Admission

Every candidate for admission to Barnard College, either to the Freshman class or to a special course, is required at the entrance examinations to offer subjects amounting to fifteen (15) points † as indicated below.

The candidate *must* offer:

English (page 25).....	counting 3 points
Elementary Latin (page 32) .....	" 4 "
Elementary Mathematics (page 33).....	" 3 "

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

Elementary Greek (page 30).....	counting 3 points
Elementary History (page 31).....	" 2 "
Intermediate French (page 27).....	" 1 point
Intermediate German (page 29).....	" 1 "
* Advanced Greek (page 30).....	" 1 "
* Advanced History (page 31).....	" 1 "
* Advanced Latin (page 33) .....	" 1 "
Advanced Mathematics (page 33) .....	" 1 "
* Advanced Physics (page 36) .....	" 1 "

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† The relative value of subjects is expressed in points according to the time required for adequate preparation in them; a point as here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

\* Candidates will be examined in this subject only in September.



The candidate may offer not more than four (4) points in all from the three subjects following:

Elementary French (page 26).....	counting 2 points
Elementary German (page 28).....	“ 2 “
Spanish (page 36) .....	“ 2 “

The candidate may offer not more than two (2) points in all from the five subjects following:

Botany (page 23).....	counting 1 point
Chemistry (page 24).....	“ 1 “
Elementary Physics (page 35) .....	“ 1 “
Physiography (page 36).....	“ 1 “
* Zoölogy (page 37) .....	“ 1 “

### Entrance Examinations

In 1904 the examinations will begin on June 20 and September 19, respectively.

In June, 1904, the entrance examinations of Barnard College will be those of the College Entrance Examination Board of which Columbia University is a member.

In September, 1904, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Entrance Examinations, and will be held only at the College. The College Entrance Examination Board at present holds no examinations in September.

### Application for Examination

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1904, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in New England, in the Middle States, or in Maryland, must be filed on or before June 6. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 30; and applications for examination at points outside of the United States and Canada must be filed on or before May 16. Applications received later than the dates named will be accepted when it is possible to arrange for the examination of the candidates concerned, but only upon payment of \$5 in addition to the usual examination fee. Candidates filing belated applications do so at their own risk. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage.

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\* Candidates will be examined in this subject only in September

Candidates for the competitive scholarships to be awarded on the basis of the June examinations must, when filing an application with the Secretary of the College Entrance Examination Board, notify the Secretary of that Board of their intention to compete for a Barnard College scholarship; in which case their answer books, after being read by the readers of the Board, will be transmitted to the Committee on Admission of Barnard College.

For the examinations in September, 1904, candidates for admission to Barnard College should send their applications to the Registrar of Barnard College. Applications must be filed on or before September 12. Candidates filing their applications later than this date do so at their own risk. Requests for blank forms of application should be addressed to the Registrar of Barnard College.

### Examination Fee

Every application for examination in June must be accompanied by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*,\* for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Every application for examination in September must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of *Barnard College*, by a receipt from the Bursar of Barnard College for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

If a late application is accepted either by the College Entrance Examination Board, or by the University Committee on Entrance Examinations, a second fee of \$5 is charged to the candidate making such late application.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which she attends as evidence that she is entitled to be admitted to the same. *No candidate will be admitted to the September examinations upon the receipt of the College Entrance Examination Board, unless that receipt bears the certification of the Registrar of Barnard College that the candidate's application for the September examinations has been filed.*

### Division of Examination

A candidate may take examinations in June (but not in September) of the year preceding that in which she purposes to enter. Such

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\* An examination fee paid to the College Entrance Examination Board for admission to the June examinations does not cover the matriculation fee of Barnard College.

examinations are known as preliminary examinations. At her preliminary examinations a candidate may, with the approval of her principal instructor, offer any subject or numbered part of a subject. (See Definitions of Requirements below.)

In the year in which she purposes to enter, a candidate may divide her examinations between June and September in whatever manner she may wish, and she may offer again in September any subject in which she may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for sixteen months, but not longer.

### Places of Examination

In June, 1904, entrance examinations will be held at a large number of widely distributed points. A complete list of the places at which examinations are to be held will be published about March 1, and may be obtained from the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1.

In September, 1904, examinations for admission to Barnard College will be held only at the College.

### Schedule of Examinations

In both June and September, 1904, entrance examinations will be conducted in the Barnard College Theatre.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

#### June 20-25, 1904

##### *Monday, June 20*

Mathematics <i>a</i> , i, ii (Elementary Algebra: to Quadratics; Quadratics, etc.).....	9-11
Mathematics <i>a</i> , iii (Advanced Algebra).....	11.10-12.10
German <i>a</i> (Elementary German).....	1-2.45
Physics (Elementary).....	2.55-4.25

##### *Tuesday, June 21*

Mathematics <i>c</i> , <i>d</i> (Plane Geometry; Solid Geometry)....	9-12
French <i>a</i> (Elementary French).....	1-2.45
Chemistry.....	2.55-4.25
Spanish.....	4.30-6



*Wednesday, June 22*

Latin <i>c</i> (Cicero) .....	9-10
Latin <i>a</i> , i, ii (Grammar and Composition) .....	10.15-11.15
Latin <i>m</i> (Sight Translation) .....	11.30-12.30
History <i>a</i> (Ancient History) .....	1.30-4
History <i>c</i> (English History) .....	1.30-4
German <i>b</i> (Intermediate German) .....	4.15-6

*Thursday, June 23*

Greek <i>b</i> (Xenophon) .....	9-10
Greek <i>a</i> , i, ii (Grammar and Composition) .....	10.05-11.05
Greek <i>g</i> (Sight Translation) .....	11.10-12.10
Latin <i>d</i> (Virgil's <i>Æneid</i> , Books I-VI) .....	2.05-3.05
Latin <i>l</i> (Advanced Latin Composition) .....	3.10-4.10
French <i>b</i> (Intermediate French) .....	4.15-6

*Friday, June 24*

English <i>a</i> (Reading and Practice) .....	9-10.30
English <i>b</i> (Study and Practice) .....	10.40-12.10
Mathematics <i>e</i> (Trigonometry) .....	1-3
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III) .....	3.15-4.15
Greek <i>f</i> (Advanced Prose Composition) .....	4.15-5.15

*Saturday, June 25*

History <i>b</i> (Mediaeval and Modern History) .....	9.30-12
History <i>d</i> (American History) .....	9.30-12
Botany * .....	1-2.30
Physiography * .....	1-2.30

## September 19-24, 1904

*Monday, September 19*

Mathematics <i>a</i> , i, ii (Elementary Algebra: to Quadratics; Quadratics, etc.) .....	9-11
Mathematics <i>a</i> , iii (Advanced Algebra) .....	11-12
German <i>a</i> (Elementary German) .....	1-3
Physics (Elementary) .....	3-4.30

*Tuesday, September 20*

Mathematics <i>c</i> , <i>d</i> (Plane Geometry; Solid Geometry) ....	9-12
French <i>a</i> (Elementary French) .....	1-3
Chemistry .....	3-4.30
Spanish .....	4.30-6

\* A candidate offering both of these subjects will be required to complete the examination in both before being permitted to leave the examination room.

*Wednesday, September 21*

Latin <i>a</i> , <i>i</i> , <i>ii</i> (Grammar and Composition).....	9-10
Latin <i>c</i> (Cicero).....	10-11
Latin <i>m</i> (Sight Translation).....	11-12
History <i>a</i> (Ancient History).....	1-2.30
History <i>c</i> (English History).....	1-2.30
German <i>b</i> (Intermediate German).....	2.45-4.30

*Thursday, September 22*

Greek <i>a</i> , <i>i</i> , <i>ii</i> (Grammar and Composition).....	9-10
Greek <i>b</i> (Xenophon).....	10-11
Greek <i>g</i> (Sight Translation).....	11-12
Latin <i>d</i> (Virgil's <i>Æneid</i> , Books I-VI).....	2-3
Latin <i>l</i> (Advanced Latin Composition).....	3-4
French <i>b</i> (Intermediate French).....	4-5.45

*Friday, September 23*

English <i>a</i> (Reading and Practice).....	9-10.30
English <i>b</i> (Study and Practice).....	10.30-12
Mathematics <i>e</i> (Trigonometry).....	1-3
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III).....	3.15-4.15
Greek <i>f</i> (Advanced Greek Composition).....	4.15-5.15

*Saturday, September 24*

History <i>b</i> (Mediaeval and Modern History).....	9-10.30
History <i>d</i> (American History).....	9-10.30
Botany *.....	10.30-12
Physiography *.....	10.30-12

*The following examinations are given only in September:*

Advanced Greek *.....	10.30-12
Advanced History *.....	10.30-12
Advanced Latin *.....	10.30-12
Advanced Physics *.....	10.30-12
Zoölogy *.....	10.30-12

**Report of Entrance Examinations**

The Committee on Admission will report to the Dean after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions and of those who must present themselves for reexamination in September.

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\* A candidate offering more than one of these subjects will be required to complete the examinations in all the subjects offered before being permitted to leave the examination room.

The Committee on Admission will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions and of those who have been rejected.

### Entrance Conditions

A student may be admitted to the Freshman class on probation (cf., p. 45) when the total number of points received by her in the entrance examinations amounts to eleven (11) out of the total required fifteen (15) points; but this rule is subject to the proviso that the four (4) points of deficiency do not include the whole of English, Elementary Latin, or Elementary Mathematics. A total failure in any one of these subjects will be regarded as disqualifying a candidate for admission.

Students admitted conditionally to the Freshman class at the beginning of the academic year will be held under probation until the end of the first half-year.

### ADMISSION TO ADVANCED STANDING

Candidates for admission from other colleges and students who desire to be admitted to advanced standing on examination must make application in writing to the Barnard College Committee on Admission. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of

1. The requirements for admission to the Freshman class;
2. All the prescribed studies already pursued by the class to which she seeks admission;
3. As many elective studies as she would have pursued if she had entered the class at the beginning of the Freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the degree of Bachelor of Arts until she shall have brought all her studies up to the point required for that degree.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) a letter of honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.



The credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student prove that the granting of the credits was wholly or in part unwarranted by her previous work.

No applicant will be allowed to enter the Senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### SPECIAL STUDENTS

Special courses of study are offered by the College to young women of proper age and character who wish, without reference to any degree, to make a serious study of any subject or group of subjects. For admission to such courses a student must have credit for fifteen (15) unconditioned points of entrance requirements. (See p. 15.) Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College, special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in any year courses amounting to at least eight (8) points, unless excused by the Dean for reasons of special weight.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or who has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students. They will, therefore, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

## DEFINITIONS OF REQUIREMENTS \*

(Specimens of the question papers set by Columbia University may be obtained from the Registrar upon application. The question papers set by the College Entrance Examination Board are published in book form by Ginn & Company, Boston, Mass. The volumes for 1901, 1902, and 1903 are sold for sixty cents each.)

## Botany † (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferae, Solanaceæ, Labiatae, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microsphaera*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphaerella*).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

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\* The relative value of subjects is expressed in points according to the time required for adequate preparation in them; a point as here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

† For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

## Chemistry (counting one point)

The candidate's preparation in Chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

OUTLINE.—The chief physical and chemical characteristics, the preparation and the recognition of the following elements, together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

LABORATORY NOTE-BOOK.—Every candidate must present *at the time of her examination in chemistry* a note-book in which she has



recorded the steps and the results of her laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
in the chemical laboratory of.....School  
during the year 19....  
Instructor in Chemistry.

#### English (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

- a. Reading and composition.—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before her in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book,\* properly certified by her instructor, containing compositions or other written work done in connection with the reading of the books.

The candidate is expected to read intelligently *all* the books prescribed. She should read them as she reads other books; she is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates offering this part of the requirement as a preliminary subject should be prepared on the books prescribed for the year in which they propose to enter the University.

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\* Such exercise books should be prepared in accordance with a list of directions to be obtained by addressing the Secretary of the University. *Exercise books should be sent to the Secretary of Columbia University not later than two weeks before the first day of the examinations.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed for reading. Exercise books will *not* be returned to the writers.

The books prescribed for this part of the examination are as follows:

In 1904 and 1905: Shakspeare's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908: Shakspeare's Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Launcelot and Elaine, and The Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

- b. Study and composition.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1904 and 1905: Shakspeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison.

In 1906, 1907, and 1908: Shakspeare's Julius Cæsar; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essay on Addison and Life of Johnson.

## French

### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should

comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouv   and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mair  t's *La t  che du petit Pierre*, M  rim  e's *Colomba*, extracts from Michelet, Sarcey's *Le si  ge de Paris*, Verne's stories.

#### b. Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE.—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.



Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Corneille's *Le Cid* and *Horace*, Copée's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *Pêcheur d'Islande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seiglière*, Scribe's plays, Thierry's *Récits des temps mérovingien*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

### German

#### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving her ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use her knowledge with facility in the formation of sentences, and, secondly, to state her knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelm's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

#### b. Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and

*Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das edle Blut*.

### Greek

#### Elementary (counting three points)

##### a. i. Greek Grammar.

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

##### ii. Greek Composition.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

##### b. Xenophon.

The first four books of the *Anabasis*.

##### c. Homer.

The first three books of the *Iliad* (omitting II, 494–end) and the constructions, poetical forms, and prosody of Homer's *Iliad*.

##### f. Advanced Greek Composition.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

##### g. Sight Translation.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's *Anabasis*.

#### Advanced (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek B. (See courses announced by the Division of Classical Philology.) In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's *Greek Prose Composition* will show the grade of preparation demanded. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.



## History

## Elementary (counting two points)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

## First Group:

- a. Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
- b. Mediæval and modern history, with due reference to the growth of the state-system.

## Second Group:

- c. English history, with due reference to social and political development.
- d. American history, with the elements of civil government.

NOTE.—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

## Advanced (counting one point)

The requirement in advanced history is intended to be an equivalent for History A—the course prescribed in Barnard College. (See courses given by Department of History.) The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in elementary history, and desire to offer history as an advanced subject, must present themselves for examination upon the historical fields included in *that group which they did not offer as an elementary subject*. For example, if a candidate offers the first group as the elementary subject, she must offer the second group as the advanced subject, and vice versa. The examination will presuppose superior ability on the part of the candidate in advanced history to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be

presented in the form of a note-book, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Secretary of Columbia University two weeks before the entrance examinations begin.

### Latin

#### Elementary (counting four points)

##### a. i. Latin Grammar.

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

##### ii. Latin Composition.

Translation into Latin of detached sentences and very easy, continuous prose based upon Cæsar and Cicero.

##### c. Cicero.

Any six orations from the following list, but preferably the first six mentioned.

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

##### d. Virgil.

The first six books of the *Æneid*, and so much of prosody as relates to accent, versification in general, and the dactylic hexameter.

##### l. Advanced Latin Composition.

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

##### m. Sight Translation.

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

**Advanced** (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin A. (See courses announced by the Division of Classical Philology.) This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody.

Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

**Mathematics****Elementary** (counting three points)*a. i.* Algebra to quadratics.

Factors, common divisors, and multiples, fractions, equations of the first degree with one or more unknown quantities, evolution, the doctrine of exponents, radicals, radical equations reducible to equations of the first degree, and putting problems into equations.

*ii.* Algebra from quadratics.

Quadratic equations, equations with one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive entire exponents.

*c.* Plane geometry.

Plane geometry, including the solution of simple original exercises and numerical problems.

**Advanced** (counting one point)*d.* Solid geometry.

Solid and spherical geometry, including the solution of simple original exercises and numerical problems.

*a. iii.* Algebra.

The arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the use of four-place and five-place tables of logarithms.

*e.* Plane trigonometry.

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.



*Beginning in June, 1905, the examination in Mathematics will be based upon the following requirements:*

**Elementary** (counting three points)

*a.* Elementary algebra.

- i. The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions; including complex fractions, ratio and proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional and negative.

- ii. Quadratic equations, both numerical and literal.

Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending upon quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the  $n$ th term and the sum of the terms of arithmetic and geometric progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

*c.* Plane geometry.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of lines and plane surfaces.

**Advanced** (counting one point)

*d.* Solid geometry.

The usual theorems and constructions of good text-books; including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of surfaces and solids.

. Trigonometry.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles.

Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

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## Physics

### Elementary (counting one point)

The candidate's preparation in physics should include:

- a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK.**—Every candidate must present *at the time of her examination in physics* a note-book in which she has recorded the steps and the results of her laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes, and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
 in the physical laboratory of.....School  
 during the year 19.....

*Instructor in Physics.*

#### **Advanced (counting one point)**

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Secretary of the University.

#### **Physiography (counting one point)**

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.\*

The candidate will be required to present at the time of her examination the original note-book in which she recorded, with dates, the steps and results of her laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

#### **Spanish (counting two points)**

THE AIM OF THE INSTRUCTION.—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing

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\* For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.



illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Dña Perfecta*; *Marianela*; Padre Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

### Zoölogy (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable ground work for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, her knowledge of the more essential facts of physiology.

*Practical Zoölogy.* A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.

MATRICULATION, REGISTRATION, AND ENROLMENT

No student is permitted to attend any academic exercise until she has complied with the regulations in regard to registration and fees.

Every student will be required, as a condition of admission, to matriculate on a blank prepared for the purpose, upon which she shall state her name, place of abode, and post-office address, and the name, place of abode, and post-office address of her father, or guardian, and such other information as may from time to time be required. A student is required to matriculate but once, upon first connecting herself with the University. In the fall of 1904, new students are required to present themselves at the College for matriculation between Wednesday, September 21, and Wednesday, September 28, inclusive.

Registration consists in furnishing to the Registrar, upon blanks provided for the purpose, such information as the University may request. Enrolment consists in filing, upon blanks provided for the purpose, a statement of the courses which a student may be authorized to pursue. In the fall of 1904, all students previously members of the College are required to present themselves at the College for registration and enrolment between Wednesday, September 21, and Tuesday, September 27, inclusive.

Matriculation, registration, and enrolment at dates later than those specified are permitted only to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown, and who pay the additional fee of five dollars (\$5) for the permission. All students will be held strictly accountable for absences incurred owing to enrolment at a later date, unless excused by the Dean.

Every student who holds a scholarship or is receiving the benefit of free or reduced tuition must obtain from the Dean a certificate to that effect. This certificate must be handed to the Bursar at the time of registration.

Withdrawal

Students are requested, in case of withdrawal from the College during the academic year, to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice is given.

FEEs

For Matriculation . . . . . \$ 5 00  
Required of all students entering the University. This fee is paid but once and is never refunded. Students who fail to register on the appointed days (see above) are permitted to register late only upon the payment of an additional fee of \$5.

Students who pay an entrance examination fee in *September*, and who are admitted to the College in that same year, will not be charged the matriculation fee, the examination fee meeting this requirement.

For tuition for candidates for a degree, per annum . . . \$150 00

Students not candidates for a degree are charged at the rate of \$15 a year for each hour of attendance per week on lectures or recitations, with a maximum fee of \$150.

In estimating a fee in laboratory work, two hours are counted as one.

For examinations for the degree of Bachelor of Arts . . . 15 00

For any examination other than those offered at the mid-year and final examination periods . . . 5 00

If a student is granted special examinations in more than one subject under one permit from the Dean, a single fee of \$5 shall cover them all.

For laboratory work:

Botany (courses 51-58 inclusive), each course . . . 2 50

" (course 59), each half-year . . . 2 50

Chemistry (course 1) . . . 5 00

" (course 30) . . . 20 00

" (course 38) . . . 20 00

" (course 40) . . . 6 00

" (course 41) . . . 6 00

Geography, each course except Geography 3 . . . 2 00

Zoölogy, each course . . . 5 00

### Regulations for the Payment of Fees

All fees are paid at the office of the Bursar. The matriculation fee must be paid at the time of entrance, before an official record of a student's work can be made.

The annual tuition fees are payable in equal instalments, one at the opening of the College in September, and one at the opening of the second half-year in February. All fees for special work, amounting to less than \$100, must be paid in one instalment at the time of registration.

Cheques should be made payable to the order of Barnard College, and addressed to the office of the Bursar.

### Estimated Necessary Expenses

Board, \$7 to \$12 a week.

Matriculation fee, \$5.

Annual tuition fee, \$150.

Text-books, from \$10 to \$20 each year.

Final examination for the degree, \$15.

The total necessary expenses for a student for the academic year are believed to average about \$15 a week.



## DORMITORY

From October, 1898, to June, 1902, Fiske Hall was used as a residence for students. This building was given by Mrs. Martha T. Fiske-Collord for a Hall of Science, and was only temporarily used as a dormitory.

The rapid growth of the student body forced the Trustees to remodel the building according to the original plan. It was therefore discontinued as a dormitory after July 1, 1902, and was remodeled into laboratories and lecture-rooms.

The Trustees feel that the dormitory added a most desirable influence to the college life, and voted to take steps to provide a permanent and separate dormitory as soon as possible.

In the meantime, provision is made in the Teachers College Dormitory for such Barnard College students as may desire to reside there, by which certain unity of college life may be maintained until the College shall have its own permanent dormitory.

Applications for information and for rooms should be made to the Director of the Teachers College Dormitory, 1230 Amsterdam Avenue, New York, N. Y.

All students who do not live with adult relatives or in the Teachers College Dormitory must have the approval of the Dean to their arrangements for residence.

## COURSE OF STUDY

The attention of students is called to the following regulations relating to the selection of studies and to the requirements for the degree of Bachelor of Arts.

Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points, each point having the value of a subject pursued one hour a week for one academic year, except that laboratory hours shall be counted for one half of the number of hours actually occupied. Not less than twelve, nor more than sixteen points may be presented in any year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. Until the end of her Junior year, a student must always pursue not fewer than three courses having a value of at least three points each.

The courses necessary to meet these requirements may be chosen by the student at will from the courses announced each year, subject to the restrictions named in connection with each course, and to the general restrictions that the following studies are prescribed:

## Prescribed Studies

## ENGLISH

*English A*, 3 points, Freshman year.

*English B*, 3 points, Sophomore year.

## LATIN

*Latin A or B*, 3 points, Freshman year.

Prescribed for students who offer Elementary Latin but not Advanced Latin for admission.

## FRENCH

*French A*, 3 points, Freshman or Sophomore year, as the Dean may permit or prescribe.

Prescribed (unless French 1 be elected) for students who do not offer Elementary French for admission.

## GERMAN

*German A*, 3 points, Freshman or Sophomore year, as the Dean may permit or prescribe.

Prescribed (unless German 2 be elected) for students who do not offer Elementary German for admission.

## MATHEMATICS

*Mathematics A*, 3 points, Freshman year.

Prescribed for students who do not offer Advanced Mathematics for admission.

## HISTORY

*History A*, 3 points, Sophomore year.

Prescribed for students who do not offer Advanced History for admission.

## PSYCHOLOGY

*Psychology A*, 1½ points, Sophomore or Junior year.

## ECONOMICS

*Economics A*, 1½ points, Junior year.

## NATURAL SCIENCE

*Botany 51*, 3 points; or *Chemistry 1*, 3 points; or *Physics 1*, 3 points; or *Zoölogy 2*, 4 points. Freshman, Sophomore, or Junior year.

## Elective Studies

In making out their list of electives, students are confined to the courses given as open to them in the departmental and other statements contained in this Announcement of the College. They must avoid conflicts of courses at the same hour, and for that purpose should consult the scheme of attendance. (See pp. 74-75.)

Students just entering must give notice, at the time of matriculation, of the elective courses chosen by them.

Students in the College are required to give notice to the Dean of their choice of elective courses on or before June 5. Blank forms for this purpose may be procured from the Registrar. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

No changes in elective courses can be made without the written

permission of the Dean. Such permission will be granted only for reasons of weight stated in writing, and no changes can be made later than one week after the beginning of the first term.

Permission is also necessary to entitle a student to take more than four hours of work, not including laboratory work, on the same day, and to take more than six hours of work weekly in any department.

The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is announced.

Elective courses are subject to withdrawal if elected by fewer than three students.

### Graduation Theses

Every candidate for graduation shall, with the approval of the instructor in charge of one of the courses in which she has studied, or is studying, select for a thesis some subject connected with that course, and, on or before December 15, communicate her selection to the Dean on blanks which are to be procured at the office of the Secretary. Under such guidance and with such help as the instructor may deem it right to give her, she shall complete the thesis, or essay, and submit it to the Dean on or before April 2. This thesis shall be judged by the head of the department in which the chosen subject lies; and judgment shall be passed upon the merit of the thesis both in its substance and in its style, and shall be reported in writing by the head of the department to the Dean. In returning the graduation thesis to the Dean the examining officer shall report:

1. A grade as to substance;
2. A grade as to style;
3. A grade as to its merits as a whole.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least two thousand (2000) words, unless there be special reasons for reducing its length; and it shall be retained as the property of the College.

If any student fail to comply with these requirements, or if her thesis be rejected, she shall not be recommended to the Trustees for graduation.

The graduation thesis must be written on firm, strong paper, eleven (11) by eight and one-half ( $8\frac{1}{2}$ ) inches in dimensions, and a space of one and one half ( $1\frac{1}{2}$ ) inches on the inner margin must be left free from writing.

### Teachers College Diploma

The course of study in Teachers College for those that intend to teach in secondary schools is so arranged that students of Barnard College may, if they so desire, obtain the diploma of Teachers College



at the time of receiving the degree of Bachelor of Arts. Details as to these courses will be found in the Announcement of Teachers College, which will be sent on application to the Secretary of Teachers College.

### Examinations in Course

Two examinations of all the classes are held every year. For the year 1904-05 these examinations will begin on Wednesday, January 25, and on Wednesday, May 24. The former is called the mid-year examination; the latter, the final examination. Any department may omit the mid-year examination in some or all of its courses for Seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. In certain courses, approved by the Faculty, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

Any student who shall have been absent from more than one tenth of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of her absences, and, should she exceed the limit allowed in any course, she must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all her absences, or be debarred from the examination.

The mid-year and final examinations provided for in the foregoing sections are *stated examinations*. Delinquent examinations as defined in a subsequent paragraph, and examinations held by special permission of the Dean are *special examinations*.

The fee for a special examination is \$5, which must be paid by the student before being admitted to the examination. If a student has special examinations in more than one subject granted her under one permit from the Dean, a single fee of \$5 shall cover them all.

Delinquent examinations, to enable deficient and debarred students of all classes to make good their deficiencies, are held within the two weeks immediately preceding the opening of the College in the fall; and in addition, for members of the Senior class only, during the first week in May.

Except as provided for in the foregoing paragraph on delinquent examinations, a student found deficient at a stated examination will not be allowed a special examination in that subject.

Except as provided for in the paragraph on delinquent examinations, a student absent from a stated examination in any subject will be allowed a special examination in that subject only when the absence was due to unavoidable circumstances. In that case the Dean may, on proper written certification to her of the circumstances, grant a special examination.

### Proficiency and Deficiency

At the close of every half-year, and after the stated examination has been held, each officer of instruction shall report to the Dean a list of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure.

A student reported in grade F or a student absent from a mid-year or final examination in any course will be deemed deficient in that course, and required to pass another examination in it at the time fixed for the delinquent examinations, unless, for reasons of weight, the Dean shall otherwise direct.

A student reported in grade D in any course at the close of the first half-year will be warned by the instructor in charge thereof that her work is so unsatisfactory that, unless improved, it may result in her being found deficient at the close of the second half-year.

A student reported in grade D in two or more courses at the end of the first half-year will be warned by the Dean that her record is not satisfactory, and that, unless she improves, she may be required to take the courses a second time or to substitute other courses.

A student reported in grade D in two or more courses at the end of the year may be required by the Dean to take the courses a second time or to substitute other courses.

No student may be advanced from the Freshman to the Sophomore class until she shall (a) have satisfied all the requirements for entrance, and (b) have not less than nine points to her credit.

No student may be advanced from the Sophomore to the Junior class until she shall have not less than twenty-four points to her credit.

No student may be advanced from the Junior to the Senior class until she shall have accomplished all the studies of the course specifically required in the first three years, and have not less than forty-five points to her credit.

For advancement under the foregoing sections, a student must be reported in a grade above D in the greater number of the courses giving her the requisite total of points; failing which she shall be dropped from the roll of her class, unless the Dean, for reasons of weight, shall otherwise determine. A student dropped from the roll of her class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but she may enter the next succeeding class and pursue the course or courses in which her deficiency exists, or, in case of elective courses and with the consent of the Dean, other course or courses equivalent thereto in time, and present herself for examination in such course or courses with that class. No student dropped from the roll of her class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, she

shall be dropped from the roll of the College, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

In all cases, the requirements for advancement from class to class must be satisfied before the opening of the College year.

### Probation

Students admitted conditionally to the Freshman class are held under probation until the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, each department in which students on probation attend shall make to the Dean a special report of progress in the case of every such student. The Dean shall as soon as practicable after the mid-year examinations decide as to each student on probation, whether she shall have her period of probation extended or be dropped from the roll of the College.

If any member of the Freshman class receive at the mid-year examinations a grade in scholarship of C, or higher, in any subject, this grade shall be regarded as removing any entrance condition that may have been recorded against her in that subject.

Any member of the Freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. She should present herself for this purpose at the entrance examinations in June or September of the year following her admission.

*The College holds no special examinations to enable students to remove entrance conditions.*

*No student may be admitted to the Sophomore class until she shall have removed all her entrance conditions.*

### Honorable Dismissal

An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian, given in writing to the Dean.

Students are requested in case of withdrawal during the academic year to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.



## DEPARTMENTAL STATEMENTS

NOTE.—The hours for laboratory work are not given in the scheme of attendance; they must be arranged on consultation with the officers in charge of the courses.

The credit given for each course is counted in points, not in hours. Courses marked with an asterisk (\*) are given at Columbia University and are open only to Seniors. Courses marked with a dagger (†) are given at Teachers College.

For more detailed information in regard to topics, text-books, or methods, in any particular course, students are referred to the instructors.

### ANTHROPOLOGY

**1—General Introductory Course.** Lectures, essays, and discussions. Professor FARRAND. Two points.

M. and W. at 10.30.

Open to Juniors and Seniors.

In the first half of this course a description of human races and of their distribution is given. The physical characters of the earliest human remains and their relations to present forms are discussed, and types of languages and their geographical distribution are described. In the second half of the year there is a discussion of the mental development of primitive man, which is followed by a description of types of primitive culture, and an inquiry into the origin and development of particular phases of culture.

**7—General Ethnography.** Lectures, readings, and discussions. Professor FARRAND. Two points.

M. and W. at 11.30.

Open to Seniors and to specially qualified Juniors.

In this course the ethnography of primitive tribes is described in geographical order. The collections in the American Museum of Natural History will be utilized for illustrating the customs of the peoples under discussion.

**\* 2—The Statistical Study of Variation,** introductory course. Lectures, essays, discussions, and practical work. Professor BOAS. First half-year. Two points.

Tu. and Th. at 9.30; practical work, Wednesday afternoon.

Open to Seniors.

This course is intended as an introduction to the study of variation for students of anthropology, biology, and psychology.

**\* 5—American Languages.** Lectures and discussions. Professor BOAS. Two points.

Tu. and Th. at 10.30.

Open to Seniors.

Selected languages will be discussed representing different types. Indian myths will be translated in connection with grammatical interpretation. The course extends over two years, allowing time for the consideration of representative types of North American languages.

## ASTRONOMY

**\* 1—General Astronomy.** Professor POOR. Two points.

Tu. and Th. at 11.30.

Open to Seniors.

**\* 2—Spherical and Practical Astronomy.** Professor JACOBY. Two lectures and two hours of observatory work. Three points.

M. and W. at 2.30.

The days and hours of Course 2 may be changed if students electing the subject so desire.

Open to Seniors who have taken Mathematics 3a or its equivalent.

For fuller information regarding courses in the Department of Astronomy, students are referred to the Announcement of the Division of Mathematical and Physical Science.

## BOTANY

**51—Elementary Botany.** Professor RICHARDS and Miss KNOX. Five hours, lectures, demonstrations, and laboratory work. Three points.

Lectures M. and F. at 9.30. Demonstrations W. at 9.30.

Laboratory fee, \$2.50.

**52—General Morphology and Development of Plants,** study of types. Dr. HAZEN. Two lectures, four hours of laboratory work. Four points.

Two additional hours of laboratory work may be taken, in which case Botany 52 will count as five points.

Tu. and Th. at 10.30.

Laboratory fee, \$2.50.

Course 52 should be preceded by 51, but is open, on consultation with the instructors, to students of sufficient training who also either attend the lectures in 51 or elect the full six hours of laboratory work in Course 52.

**53—Morphology of Spermatophytes and Pteridophytes,** study of the natural orders. Dr. HAZEN. Four hours. Two points.

Laboratory fee, \$2.50.

Prerequisite or parallel: Course 51.

**54—Anatomy of Vascular Plants.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. First half-year. Two and one half points.

Laboratory fee, \$2.50.

[**55a—Physiology of Plants from Standpoint of Nutrition.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. Alternate second half-years. Two and one half points.

Laboratory fee, \$2.50.

*Not given in 1904-05.]*

**55b—Physiology of Plants from Standpoint of Growth.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. Alternate second half-years. Two and one half points.

Laboratory fee, \$2.50.

Courses 54, 55a, and 55b presuppose a knowledge of the more elementary courses. Open to students only after consultation with the instructor.

**56—Structure and Development of Algæ.** Advanced course. Professor RICHARDS. One lecture and six hours of laboratory work. First or second half-year. Two points.

Laboratory fee, \$2.50.

Prerequisite: Courses 51 and 52.

**57—Structure and Development of Fungi.** Advanced course. Professor RICHARDS. One lecture and six hours of laboratory work. First or second half-year. Two points.

Laboratory fee, \$2.50.

Prerequisite: Courses 51 and 52.

Courses 56 and 57 are given either the first or second half-year to suit the convenience of the instructor and students. The two courses will not usually be given the same year.

**58—Developmental Anatomy.** Practice in methods of technique. Professor RICHARDS and Dr. HAZEN. Eight hours of laboratory work, with occasional lectures and outside reading. First or second half-year. Two points.

Laboratory fee, \$2.50.

Prerequisite: Course 54. May be taken with Course 55a or 55b.

**59—Advanced Physiology and Morphology.** Professor RICHARDS and Dr. HAZEN. Written work, outside reading.

Work will be arranged to suit the needs of the students, and credit will be given according to the amount accomplished.

Laboratory fee, \$2.50 for each half-year.



## CHEMISTRY

**1—General Inorganic Chemistry.** Dr. REIMER and Miss KELLER. Two lectures and two hours of laboratory work. Three points.

M. and W. at 11.30.

Laboratory fee, \$5.

**40—Qualitative Analysis.** Miss KELLER. Three lectures and eight hours of laboratory work. First half-year. Three and one half points.

Hours to be arranged.

Laboratory fee, \$6.

Prerequisite: Course 1.

**41—Quantitative Analysis.** Miss KELLER. Three lectures and eight hours of laboratory work. Second half-year. Three and one half points.

Hours to be arranged.

Laboratory fee, \$6.

Prerequisite: Courses 1 and 40.

**20—Organic Chemistry, Elementary Lecture Course.** Dr. REIMER. Two lectures. Two points.

Hours to be arranged.

Prerequisite: Course 1. It is urged that Course 30 be taken with this course.

**30—Organic Chemistry, Elementary Laboratory Course.** Dr. REIMER. Eight hours. Four points.

Hours to be arranged.

Laboratory fee, \$20.

This course is designed to teach the student the important methods of preparation of organic compounds.

Prerequisite: Courses 1 and 20. It is urged that it be taken at the same time as Course 20.

**38—Organic Chemistry, Advanced Course.** Dr. REIMER. Three lectures and six hours of laboratory work. Six points.

Hours to be arranged.

Laboratory fee, \$20.

This course is designed to supplement Courses 20 and 30. It is a more comprehensive discussion of the most important classes of organic compounds and their relations to each other. Special emphasis will be given to recent theories as to the structure of the compounds and the mechanism of their reactions. The laboratory work consists of the preparation of organic compounds discussed in the lectures and the study of their reactions, special emphasis being given to synthetical methods for building up the more complicated organic compounds occurring in nature.

Minor for A.M. or Ph.D. Prerequisite: Courses 1, 20, 30.

Major for A.M. when taken with additional laboratory work and with Chemistry 36 at Columbia University. Prerequisite: Courses 1, 40, 41, 20, 30.

## ECONOMICS AND SOCIAL SCIENCE

## Economics

**A—Outlines of Economics.** Study of the characteristics of modern industrial society and of the fundamental economic principles. Professor MOORE and Dr. JOHNSON. First half-year. One and one half points.

Section I, M., W., and F. at 9.30; Section II, M., W., at 10.30, and F. at 9.30

Prescribed for Juniors. Open to qualified Sophomores who take Course 1.

**1—Economic History of England and the United States,** with constant attention to the evolution of present economic conditions and the rise of current social problems. Professor MOORE and Dr. JOHNSON. Second half-year. One and one half points.

M., W., and F. at 10.30.

Open to Seniors, Juniors, and properly qualified Sophomores.

This course forms a natural supplement to Course A and should be elected by students who desire a broad understanding of economic questions.

**2b—The Recent Development of Economics in England,** with a critical study of Marshall's Principles of Economics. Professor MOORE. Second half-year. One point.

W. and F. at 1.30.

Prerequisite: Course A or its equivalent.

**2c—The Social Teachings of Carlyle, Ruskin, J. S. Mill, Kingsley, and T. H. Green.** Professor MOORE. First half-year. One point.

W. and F. at 1.30.

Prerequisite: Course A or its equivalent.

**3—Practical Economics.** Professor SEAGER. Second half-year. One point.

Tu. and Th. at 1.30.

Prerequisite: Course A or its equivalent.

This course suggests how economic theories are to be applied to the solutions of questions of the day. The topics discussed are money, banking, taxation, government expenditures, foreign trade, monopolies and trusts, and the legal regulation of industries.

**6—The Labor Problem.** Professor SEAGER. First half-year. One point.

Tu. and Th. at 1.30.

Prerequisite: Course A or its equivalent.

This course should be elected in conjunction with Course 3 by students desiring a whole year's work in practical economics.

**11—Communistic and Socialistic Theories.** Professor CLARK. First half-year. One point.

Tu. and Th. at 11.30.

Open to Seniors.

**12—Theories of Social Reform.** Professor CLARK. Second half-year. One point.

Tu. and Th. at 11.30.

Open to Seniors.

### Sociology

**15—Principles of Sociology.** Professor GIDDINGS. Two points.

Tu. and Th. at 2.30.

Open to Seniors.

**16—Family Organization.** Field work in the study of family groups. Study of the sacred law codes. Consultations. Dr. ELSIE CLEWS PARSONS. One point.

Tu. at 3.30 bi-weekly.

Open to Seniors.

In connection with the lectures and field work of this course opportunities are given to students to become acquainted with the more important private institutions for social betterment in New York City, and to study the organization and activity of the various public agencies charged with the welfare of the community.

## EDUCATION

Teachers College is the Division of Education of Columbia University. A full statement of the nature of its courses, the work prerequisite to them, and the credit which may be received for them in partial fulfilment of the requirements for the several diplomas and degrees, will be found in the current edition of the Announcement of Teachers College, which can be obtained, without charge, upon application to the Secretary of the College.

The following courses in Education are open to students of Barnard College:

1. Courses open to Juniors and Seniors only are designated by the numbers 10-49 inclusive.

2. Courses open to Seniors and graduates only are designated by the numbers 50-99 inclusive.

Psychology A and Education 10 are prerequisite to all courses in education. Education 50 must be taken parallel with other courses in the Senior year.

### History and Philosophy of Education

† 50—**History and Principles of Education.** Lectures, required readings, reports, and discussions. Professor MONROE and assistants. Three points.

Tu. and Th. at 3.30 and a third hour in sections.

(I) F. at 9.30 for candidates for a Bachelor's diploma in secondary teaching.

(III) S. at 9.30 for candidates for a Bachelor's diploma in elementary and kindergarten teaching.

(V). F. at 2.30 for students who obtain the consent of the instructor.

† 51—**Contemporary Educational Problems.** Lectures and discussions. Dean RUSSELL and Professor MONROE, in co-operation with President BUTLER, and special lecturers. One point.

W. at 4.30.



† 52—**Modern Educational Theory.** Lectures, reading, and discussion. Professor MACVANNEL. Two points.

Tu. and Th. at 2.30.

#### Educational Administration

† 54—**School Administration.** Lectures, essays, and discussions. Professor DUTTON. Two points.

M. and F. at 4.30.

#### Educational Psychology

† 10—**Educational Psychology.** Lectures, practical exercises, and recitations. Professor THORNDIKE and Miss NORSWORTHY. Second half-year. One and one half points.

The class will meet together on M. at 4.30 and in sections as follows:

(I) M., W., and F. at 10.30, open to candidates for the Bachelor's diploma in kindergarten, elementary, and secondary teaching.

(III) M., W., and F. at 3.30, open to collegiate students and others by permission of the instructor.

† 12—**Child Study.** Observation, experiment, private reading, and conferences. Miss NORSWORTHY. Two points.

Tu. and Th. at 10.30.

† 59—**Genetic Psychology.** Advanced course. Professor THORNDIKE. Two points.

M. and W. at 11.30.

#### Elementary Education

† 15—**General Method and Practice Teaching.** Weekly conferences following observation of lessons and practical work in the schoolroom. Mr. SUZALLO, in co-operation with Professor McMURRY and instructors. Three points.

(a) Class work, two points. M. at 9.30, and S. 10.30-12.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

† 16—**Primary and Kindergarten Teaching.** Lectures, observation, and practical work. Miss O'GRADY. Two points.

Tu. and Th. at 11.30.

#### Secondary Education

† 57—**Secondary Education.** Lectures, discussions, and reports. Professor SACHS. Two points.

Tu. and Th. at 4.30.

### Biology

† 60—Theory and Practice of Teaching Biology in the Secondary School. Lectures, discussions, and practical work. Professors LLOYD and BIGELOW. Three points.

(a) Class work, two points. M. and W. at 11.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college biology, 3 points of which may be taken concurrently.

### English

† 26—Theory and Practice of Teaching English in Elementary Schools. Lectures, recitations, and private reading. Professor BAKER. Two points.

(a) Class work, one point. M. and F. at 11.30, first half-year.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: English A, and 2 or 5 or their equivalent.

† 66—Theory and Practice of Teaching English in Secondary Schools. Lectures, reading, written work, observation, and practice-teaching. Professor BAKER. Three points.

(a) Class work, two points. M. and W. at 9.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college English.

### Geography

† 32—Theory and Practice of Teaching Geography in Elementary Schools. Lectures, discussions, and practical work. Redway's *New Basis of Geography*, Dodge's *Elementary and Advanced Geographies*. Professor DODGE and Miss C. B. KIRCHWEY. Two points.

(a) Class work, one point. Tu. and Th. at 11.30, second half-year.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: Geography 1 or 2, or the equivalent.

† 72—Theory and Practice of Teaching Geography in Secondary Schools. Lectures, discussions, and practical work. Davis's *Physical Geography* and *Report of Committee on College Entrance Requirements of National Educational Association*. Professor DODGE and Miss C. B. KIRCHWEY. Three points.

(a) Class work, two points. M. and F. at 11.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: 9 points in geography and geology, including at least 2 points in geology.

**German**

† 74—**Theory and Practice of Teaching German in Secondary Schools.** Lectures, discussions, reports, and practice teaching. Professor BAGSTER-COLLINS. Three points.

(a) Class work, two points. M. and W. at 3.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college German.

**Greek**

† 76—**Theory and Practice of Teaching Greek in Secondary Schools.** Lectures, reports, and practical work. Professor LODGE. Three points.

(a) Class work, two points. Tu., Th. (and F.) at 1.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: At least 9 points in college Greek.

**History**

† 38—**Theory and Practice of Teaching History in Elementary Schools.** Lectures, conferences, reference work, and practical work. Professor CASTLE. Two points.

(a) Class work, one point. M. and W. at 10.30, second half-year.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

† 78—**Theory and Practice of Teaching History in Secondary Schools.** Lectures, discussions, and practical work. Professor CASTLE. Three points.

(a) Class work, two points. Tu. and Th. at 9.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college history.

**Latin**

† 82—**Theory and Practice of Teaching Latin in Secondary Schools.** Lectures, reports, and practical work. Professor LODGE. Three points.

(a) Class work, two points. M., W. (and F.) at 1.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college Latin

**Mathematics**

† 46—**Theory and Practice of Teaching Mathematics in Elementary Schools.** Lectures, discussions, and practical work. Professor SMITH. Two points.



(a) Class work, one point. M. and W. at 3.30, first half-year.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: Mathematics A or B, or the equivalent.

† 86—**Theory and Practice of Teaching Mathematics in Secondary Schools.** Lectures, discussions, and practical work. Professor SMITH  
Three points.

(a) Class work, two points. Tu. and Th. at 11.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college mathematics.

### Nature Study

† 20—**Theory and Practice of Teaching Nature Study in Elementary Schools.** Lectures, discussions, and practical work. Professor BIGELOW, in co-operation with Professors LLOYD, WOODHULL, and DODGE. Three points.

(a) Class work, two points. Tu. and Th. at 11.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: Nature Study 10, or its equivalent.

### Physical Education

† 49—**School Hygiene.** Lectures, demonstrations, collateral reading, reports, and practical work. Professor WOOD. Two points.

M. and W. at 11.30.

### Physical Science

† 92—**Theory and Practice of Teaching Physical Science in Secondary Schools.** Chemistry; physics. Lectures, laboratory exercises, observation, and practical work. Professor WOODHULL. Three points.

(a) Class work, two points. F. at 1.30–3.30.

(b) Practical work, one point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 hours in college physics and chemistry.

## ENGLISH

### Composition

**A—English Literature and Composition.** Recitations, weekly themes, and lectures. Professor BREWSTER, Miss GILDERSLEEVE, and Miss BALL. Three points.

Tu., Th., and S. at 10.30.

Prescribed for Freshmen.

**B—English Literature and Composition.** Lectures, fortnightly themes, and consultations. Professor BREWSTER, Miss GILDERSLEEVE, and Miss BALL. Three points.

Tu. and Th. at 1.30, and a third hour to be arranged.

Prescribed for Sophomores.

**1—English Composition.** Professor BREWSTER. Three points.

Tu. and Th. at 11.30, and a third hour to be arranged.

Prerequisite: Course B.

With the permission of the instructor, this course may be taken in two successive years. The course may be elected or dropped at the end of the first term, but in no case may the second term be elected unless the student has passed at least once the work of the first half-year.

**[2—Elocution and Public Speaking.** Three hours. Two points.

*Not given in 1904-05.]*

**3—Argumentation.** Miss GILDERSLEEVE. Three points.

Tu. and Th. at 11.30, and a third hour to be arranged.

Prerequisite: Course B.

With the permission of the instructor, this course may be taken in two successive years.

#### Linguistics

**10—Anglo-Saxon : Introduction to the History of the English Language.** Dr. KRAPP. Three points.

M., W., and F. at 1.30.

Prerequisite: Course B.

In 1904-05, Seniors who have completed Course 10 or its equivalent may, with the permission of the Dean and the instructor, elect one of the advanced courses in this field for graduate students.

#### Literature

Of the following courses, 15 and 16 are introductory and are designed chiefly for Freshmen and Sophomores. In 1905-06 and thereafter, Course 15 or Course 16 will be prerequisite for Courses 17-21.

**15—American Literature.** Professor G. R. CARPENTER. Two points.

Tu. and Th. at 11.30.

**16—English Literature in the Nineteenth Century.** Professor TRENT. Two points.

M. and W. at 10.30.

**17—English Literature in the Seventeenth Century.** Professor TRENT. Two points.

M. and W. at 11.30.

Courses 17 and 18 are given in alternate years.

**[18—English Literature in the Eighteenth Century.** Professor TRENT. Two points.

*Not given in 1904-05.]*

**19—Shakspeare.** Professor NEILSON. Two points.  
M. and W. at 11.30.

**[20—The Development of English Fiction.** Professor BREWSTER.  
Two points.

*Not given in 1904-05.]*

Courses 20 and 21 are given in alternate years.

**21—The Development of the English Drama.** Professor BREWSTER.  
Two points.  
M. and W. at 9.30.

**French.** See **Romance Languages and Literatures**

## GEOGRAPHY

**† 1—General Geography.** Professor DODGE. Lectures and laboratory work. Two points.

Tu. and Th., 9.30-11.30.

Laboratory fee, \$2.

Open to all undergraduate students.

**† 2—General Geography (continued).** Professor DODGE. Lectures and laboratory work. Two points.

M. and F., 9.30-11.30.

Laboratory fee. \$2.

Prerequisite: Course 1 or its equivalent.

**† 3—Geography of the United States.** Professor DODGE. Lectures and library work. First half-year. One point.

Tu. and Th. at 4.30.

Prerequisite: Course 1 or its equivalent.

**[† 10—Physiography—first half-year. Geography of the United States—second half-year.** Professor DODGE. Lectures, laboratory, and library work. Three points.

Open to Juniors and Seniors.

*Not given in 1904-05.]*

(For courses in Methods of Teaching Geography in Elementary and in Secondary Schools see **Education 32, 72.**)

## GEOLOGY

**[1—General Geology.** Physical, dynamical, structural, and historical geology. Dr. OGILVIE. Two lectures and two or four hours of laboratory work. Three or four points.

As a preliminary to this course it is desirable, although not essential, that students should have taken Chemistry 1 and Zoölogy 2, and that they should have some knowledge of Mineralogy.

*Not given in 1904-05.]*



[13—**Summer Field Course.** Dr. OGILVIE. Two weeks in the field, involving the subsequent preparation of a report. Two points.

Prerequisite: Course 1 or its equivalent.

*Not given in 1904-05.]*

[16a—**Paleontology.** A study of the invertebrate faunas of the various geologic periods in North America, embracing all the more characteristic types of each formation. Dr. OGILVIE. One lecture, two or four hours of laboratory work. Two or three points.

Prerequisite: Course 1 and Zoölogy 2.

*Not given in 1904-05.]*

## GERMANIC LANGUAGES AND LITERATURES

### German

**A—Elementary Course.** Dr. TOMBO and Miss PERIAM. Three points.

Section I, M., W., and F. at 10.30; Section II at 2.30.

Prescribed for Freshmen that did not present German at entrance.

**2—Reading, Grammar, and Composition.** Dr. BRAUN and Miss PERIAM. Three points.

Section I, M., W., and F. at 1.30; Section II at 3.30.

Prerequisite: Course A or elementary entrance German.

**3a—Selected Works of Goethe, Schiller, and Lessing.** Texts, chiefly dramatic, and essays in German. Intended primarily for students who have not previously read works of these authors. Dr. TOMBO and Dr. BRAUN. Three points.

Section I, M., W., and F. at 10.30; Section II at 1.30.

Prerequisite: Course 2 or intermediate entrance German.

**3b—Selected Works of Goethe, Schiller, and Lessing.** Texts and essays in German. Intended primarily for students who have some acquaintance with the works of these authors. Dr. TOMBO. Three points.

M., W., and F. at 2.30.

Prerequisite: Course 2 or intermediate entrance German.

**4—Historical Prose.** Selections from German historians, essayists, and critics. Dr. BRAUN. Two points.

Tu. and Th. at 10.30.

Prerequisite: Course 2 or intermediate entrance German.

[\* **6a—History of German Literature** from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Prerequisite: Course 3 or Course 4

*Not given in 1904-05.]*

**6b—History of German Literature** from the Reformation to the 19th century. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Tu. and Th. at 11.30.

Prerequisite: Course 3 or Course 4.

**\* 7—Goethe's Faust**; first and second parts. Lectures and recitations. Professor THOMAS. Two points.

W. and F. at 9.30.

Open to Seniors who have taken Course 6 or its equivalent.

**8—Practice in Speaking and Writing German.** Talks, conferences, and themes, all in German, upon linguistic and literary topics. Dr. BRAUN. Two points.

Section I, Tu. and Th. at 1.30; Section II at 2.30.

Prerequisite: Course 3 or Course 4.

**[\* 10a—Great German Writers: Lessing** (first half-year); **Goethe** (second half-year). Lectures and essays. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05; given in 1905-06.]*

**\* 10b—Great German Writers: Schiller** (first half-year); **Heine** (second half-year). Lectures and essays. Professor THOMAS. Two points.

W. and F. at 10.30.

Open, with the permission of the instructor, to Seniors.

**\* 11—Old High German.** Professor R. TOMBO, Jr. Two points.

M. and W. at 4.30.

Open, with the permission of the instructor, to Seniors.

Courses 11 and 21 are given in alternate years.

**[\* 21—Middle High German.** Professor HERVEY. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05; given in 1905-06.]*

**\* 23—Epochs of German Culture. The Age of Chivalry.** Professor HERVEY.

M. and W. at 2.30.

Open, with the permission of the instructor, to Seniors.

**\* 20—History of German Literature in the Nineteenth Century.** Professor THOMAS. Two points.

W. and F. at 11.30.

Open, with the permission of the instructor, to Seniors.

**25—Geschichte der deutschen Litteratur im 19. Jahrhundert.** Vorlesungen in deutscher Sprache. Dr. TOMBO. Two points.

Tu. and Th. at 2.30.

Prerequisite: Course 3 or Course 4.

### Scandinavian

[\* 12—**Swedish**. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05.]*

\* 13—**Danish**. Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Danish and Norwegian literature. Professor THOMAS. Two points.

Tu. and Th. at 10.30.

Open, with the permission of the instructor, to Seniors.

[\* 14—**Icelandic**. Elementary Course. Professor W. H. CARPENTER. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05.]*

\* 15—**Icelandic**. Advanced Course. Professor W. H. CARPENTER. Two points.

Tu. and Th. at 3.30.

Open, with the permission of the instructor, to Seniors.

Courses 14 and 15 are given in alternate years.

### Low German

[\* 16—**Dutch**. Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Dutch literature. Professor W. H. CARPENTER. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05.]*

[\* 24—**Old Saxon**. Elementary Course. Professor R. TOMBO, Jr. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1904-05.]*

### Gothic

\* 17—**Gothic**. Lectures and Texts. Dr. REMY. Two points.

Tu. and Th. at 4.30.

Open, with the permission of the instructor, to Seniors.

### Germanic Philology

\* 18—**General Introduction to Germanic Philology**. Lectures and exercises. Professor W. H. CARPENTER. Two points.

M. and W. at 3.30.

Open, with the permission of the instructor, to Seniors.



## GREEK

**A—Beginners' Course : Grammar, Composition, Xenophon's Anabasis, Homer's Iliad.** Mr. HURLBUT. Three hours a week throughout the year.

To be counted as three points by such students as subsequently pass either the entrance examination in elementary Greek or an equivalent examination.

M., W., and F. at 2.30.

**B—Plato : Apology, Crito, and Euthyphro, first half-year. Homer : The Odyssey (selections), second half-year.** Greek prose composition fortnightly throughout the year. Miss HIRST and Mr. HURLBUT. Three points.

M., W., and F. at 11.30.

Prerequisite: Course **A** or elementary entrance Greek.

**3—Euripides : Alcestis and Iphigenia in Tauris; required private reading; first half-year. Demosthenes : Olynthiacs and Philippics ; required private reading; second half-year.** Mr. HURLBUT and Professor EARLE. Three points.

M., W., and F. at 11.30.

Prerequisite: Course **B** or its equivalent.

An additional hour weekly (Th. at 10.30) in prose composition will be offered, and students that take this may count Course **3** as four points.

**6—Sophocles : Antigone and Œdipus Tyrannus; first half-year. Herodotus (VI–VII); second half-year.** For private reading in the course of the year: **Æschylus : Prometheus Vincit.** Professors EARLE and KNAPP. Three points.

M., W., and F. at 1.30.

Open to Juniors and Seniors.

**7—Advanced Greek Prose Composition.** Professor EARLE. One session weekly, with written exercises. Two points.

Th. at 2.30.

Open to Juniors and Seniors. Required of candidates for Junior honors in classics.

**8—New Testament Greek : Reading of the Gospel according to Luke and the Acts of the Apostles with special regard to the forms and idioms of New Testament Greek.** Mr. HURLBUT. Two points.

Hours to be arranged.

Open to especially qualified Juniors and Seniors.

**31—Plato : The Republic; first half-year. Aristotle : The Nicomachean Ethics; second half-year.** Professor EARLE. Three points.

M., W., and F. at 2.30.

Open to Juniors and Seniors.

**32—The Melic Poets ; first half-year. Æschylus; second half-year.** Professor PERRY. Three points.

M., W., and F. at 9.30.

Open to Juniors and Seniors.

(For Teachers' Course by Professor Lodge see Education 76.)

### HISTORY

**A—Epochs of Ancient, Mediæval, and Modern History** with special reference to forms of government and changes in social conditions. Miss LOOMIS. Three points.

Section I, Tu., Th., and S., at 9.30; Section II., Tu., Th., and S. at 10.30.

Prescribed for Sophomores, but may be taken as an elective by Freshmen.

[1—**Mediæval and Modern History to the Peace of Westphalia.** Dr. SHOTWELL. Three points.

Prerequisite: Course A.

This course covers practically the same period as Course 11, but treats different phases of the political and social development, such as Charlemagne's Empire, Feudalism, the Mediæval Church in its political and social aspects, the Crusades, the Towns, especially the Italian city-states in the 14th and 15th centuries, the rise of the Modern Monarchies, the Empire of Charles V, and the Protestant Revolt.

*Not given in 1904-05.]*

**2—Continental and English History, modern and contemporaneous.** Mr. BEARD. Three points.

Tu. and Th. at 10.30, and a third hour to be arranged.

Prerequisite: Course A.

In this course an especial effort will be made to prepare the student to understand current European political and social issues.

**3—English History to the Reform Bill, 1832.** Miss LOOMIS. Three points.

Tu. and Th. at 2.30, and a third hour to be arranged.

Prerequisite: Course A.

**4—History of the United States to the Close of Reconstruction.** Dr. SHEPHERD. Three points.

M., W., and F. at 11.30.

Prerequisite: Course A.

This is largely a reading course, devoted to the study of the people of the United States in their general social development. Much attention is paid to the characteristics of the population in the various sections, to the personality of the great political and military leaders, and to the influence of these upon the progress of the nation. In the class-room the method of procedure is that of discussions and reports on assigned topics rather than of text-book recitations.

**[6—The History of England during the Eighteenth and Nineteenth Centuries.** Professor OSGOOD. Two points.

Open to Seniors and, with the permission of the Dean, to Juniors.

*Not given in 1904-05.]*

Courses 6 and 16 are given in alternate years.

**11—Development of Culture during the later Middle Ages, Renaissance, and Protestant Revolution.** Professor ROBINSON. Two points.

Tu. and Th. at 3.30.

Open to Seniors and, with the permission of the Dean, to Juniors.

**16—Constitutional History of England to 1689.** Professor OSGOOD. Two points.

Tu. and Th. at 2.30.

Open to Seniors.

Courses 6 and 16 are given in alternate years.

**31—Political and Constitutional History of the United States.** Dr. SHEPHERD. Two points.

M. and W. at 2.30.

Open to graduate students and Seniors.

This course of lectures will deal with the sources and establishment of the Federal Constitution, and with its application, in the process of national development, down to 1877. A fair general knowledge of the history of the United States is a prerequisite.

**50—Greece and Rome.** Dr. BOTSFORD. Three points.

M., W., and F. at 10.30.

Open to Seniors and, with the permission of the Dean, to Juniors.

This course will follow the development of Greek politics and civilization from the Mycenæan to the Hellenic age and the rise of Rome to supremacy in Italy.

**[51—The Roman Empire.** Dr. BOTSFORD. Three points.

Open to Seniors and, with the permission of the Dean, to Juniors.

Course 51, which alternates with Course 50, brings the history of the Empire and the western world down to the time of Justinian.

*Not given in 1904-05.]*

## LATIN

**A—Livy: Books XXIII-XXIV;** prose composition weekly; first half-year. **Horace: Odes;** prose composition continued; second half-year. Miss HIRST and Professor KNAPP. Three points.

M., W., and F. at 9.30.

Prescribed for Freshmen that do not take Course B.

**B—Cicero: De Senectute and De Amicitia;** prose composition weekly; first half-year. **Horace: Odes;** prose composition continued; second half-year. Miss HIRST and Professor KNAPP. Three points.

Tu., Th., and S. at 9.30.

Prescribed for Freshmen that do not take Course A.



**1—Satires and Epistles of Horace;** first half-year. **Tacitus: Annals I–IV;** second half-year. Professor EARLE and Miss HIRST. Three points.

M., W., and F. at 10.30.

Prerequisite: Course A or Course B.

An extra hour weekly (Th. at 3.30) will be offered in prose composition to students of Course 1 and Course 2, and students that take this may count Course 1 as four points or Course 2 as three points.

**2—Catullus and Tibullus;** first half-year. **The Letters of Cicero** (selections); second half-year. Mr. HURLBUT. Two points.

Tu. and Th. at 11.30.

Prerequisite: Course A or Course B.

An extra hour weekly (Th. at 3.30) will be offered in prose composition to students of Course 1 and Course 2, and students that take this may count Course 1 as four points or Course 2 as three points.

**3—Cicero: Tusculan Disputations;** first half-year. **Lucretius** (selections); second half-year. Professor McCREA. Three points.

M., W., and F. at 11.30.

Prerequisite: Course 1 or Course 2.

**4—Terence: Andria and Phormio;** first half-year. **Plautus: Captivi and Mostellaria;** second half-year. Professor KNAPP. Three points.

M., W., and F. at 2.30.

Prerequisite: Course 1 or Course 2.

**22—Advanced Latin Prose Composition.** Professor KNAPP. One session weekly, with written exercises. Two points.

Tu. at 11.30.

Open to students that have had two years' work in college in Latin prose composition.

**23—Latin Themes.** Professor EARLE. One session weekly. Two points.

Th. at 11.30.

Open to specially qualified students that have taken Course 22.

**34—Suetonius;** first half-year. **Juvenal;** second half-year. Professor KNAPP and Miss HIRST. Three points.

M., W., and F. at 11.30.

Open to Juniors and Seniors.

**35—Seneca's Plays;** first half-year. **Virgil: Georgics;** second half-year. Professor KNAPP and Miss HIRST. Two points.

Tu. and Th. at 10.30.

Open to Juniors and Seniors.

(For Teachers' Course by Professor Lodge see Education 82.)

MATHEMATICS

**A—Geometry, Algebra, and Trigonometry.** Solid geometry; algebra, including progressions, permutations and combinations, and logarithms; plane trigonometry, including the use of tables, the solution of triangles, and the important analytical formulæ. Dr. KASNER and Dr. FINDLAY. Three points.

Section I, M. W., and F. at 9.30. Section II, M., W., and F. at 10.30. Section III, M., W., and F. at 11.30; Section IV, Tu., Th., and S. at 9.30.

Prescribed for Freshmen that did not present advanced mathematics at entrance.

**1—Analytical Geometry.** Introduction to the analytical geometry of the plane and of space. Dr. KASNER. First half-year. One and one half points.

M., W., and F. at 10.30.

Prerequisite: Course A or advanced entrance mathematics.

**2—Calculus.** Elementary course in the differential and integral calculus. Dr. KASNER. Second half-year. One and one half points.

M., W., and F. at 10.30.

Prerequisite: Course 1.

Courses 1 and 2 are required for admission to all advanced courses.

**3—Theory of Equations.** Algebraic and numerical solution of equations, determinants, complex numbers. Dr. FINDLAY. Three points.

M., W., and F. at 1.30.

Prerequisite: Course A.

**[5—Projective Geometry.** Projective methods of pure geometry. Three points. Dr. FINDLAY.

Prerequisite: Courses 1 and 2.

*Not given in 1904-05.]*

**6—Calculus.** Differential and integral calculus. Professor COLE. Three points.

M., W., and F. at 11.30.

Prerequisite: Course 2.

**[7—Differential Equations.** Ordinary and partial differential equations, with applications to geometry. Dr. KASNER. Three points

Prerequisite: Course 6.

*Not given in 1904-05.]*

**8—Advanced Analytical Geometry.** Modern methods in analytical geometry; solid analytical geometry. Dr. FINDLAY. Three points

M., W., and F. at 2.30.

Prerequisite or parallel: Course 6.

**9—The Fundamental Concepts of Modern Mathematics.** Lectures, discussions, and reports. Dr. KASNER. Three points.

M., W., and F. at 11.30.

Prerequisite: Course 6.

This course is designed to serve as a general introduction to higher mathematics. It will include some of the results of recent investigation, especially in their bearing on elementary mathematics.

† **51—History of Mathematics.** Professor D. E. SMITH. Two points. M. and W. at 9.30.

(Other courses in the history and teaching of mathematics are offered in Teachers College.)

### MECHANICS

**[3b—Theoretical Mechanics.** Dr. KASNER. Three points.

Prerequisite: Mathematics 6.

*Not given in 1904-05.]*

### MUSIC

The Department of Music is part of the Division of Fine Arts of Columbia University. A full statement of the nature of the music courses, the requirements for admission thereto, and the regulations concerning registration therefor will be found in the current edition of the Announcement of the Division of Fine Arts, which can be obtained, without charge, upon application to the Secretary of Columbia University.

A subsequent announcement, embodying additional courses, will be issued, if a Professor of Music is appointed.

**\* 1—General Musical Course.** History and analysis with illustrations. Professor McWHOOD. One point.

M. at 9.30.

**\* 3—Harmony.** Professor McWHOOD. Two points.

M., 10.30-12.30.

Students in Course 3 are recommended to take also Course 6.

**\* 4—Counterpoint.** Professor McWHOOD. Two points.

Th., 10.30-12.30.

**\* 6—Musical Dictation.** Professor McWHOOD. One point.

M. at 1.30.

**\* 7—Advanced Harmony and Practical Composition.** Professor McWHOOD. One point.

Th. at 9.30.

**\* 10—Musical Dictation, advanced.** Professor McWHOOD. One point.

Th. at 1.30.

**\* 12—Analysis of Musical Sound.** Professor McWHOOD. Second half-year. One half point.

M. at 2.30.



## PHILOSOPHY AND PSYCHOLOGY

## Philosophy

**1—Historical and Critical Introduction to Philosophy.** Lectures, essays, discussions, and private reading. Text-books to be announced, Dr. JONES. Three points.

M., W., and F. at 2.30.

Open to Juniors and Seniors.

This course serves as a general introduction to the study of philosophy, and is prerequisite to all courses except 2, 8, and 9.

**2—Ethics.** Mackenzie's *Manual of Ethics*. Recitations, essays, and discussions. Professor LORD. Second half-year. One and one half points.

M., W., and F. at 9.30.

Prerequisite: Psychology A.

This course is prerequisite to Courses 7 and 8.

**9—Logic and Scientific Method.** Lectures, recitations, and discussions. Dr. JONES. First half-year. One and one half points.

M., W., and F. at 11.30.

\* **3—The Philosophy of Kant.** Dr. SHELDON. Two points.

M. and W. at 1.30.

\* **4—British Philosophy from Locke to Herbert Spencer.** Professor WOODBRIDGE. Two points.

Tu. and Th. at 2.30.

\* **6—Logic and Metaphysics.** Professor WOODBRIDGE. Two points.

Tu. and Th. at 3.30.

Open to Seniors who have taken Course 3 or Course 4.

\* **7—Ethics.** Advanced Course. **History of Ethics;** first half-year. **Systematic Ethics;** second half-year. Either half-year may be taken separately. Dr. MONTAGUE. Two points.

Tu. and Th. at 4.30.

Open to Seniors who have taken Course 2.

\* **8—Principles and Problems of Æsthetics.** Dr. JONES. Two points.

Tu. and Th. at 1.30.

Open to Seniors.

Two hours of laboratory work, counting as an additional point, may be taken in connection with this course.

\* **12—Philosophical Practicum: Selected Topics in Modern Philosophy,** principally taken from the writings of Hegel and of Herbart. President BUTLER. Two points.

\* **15—Descartes, Spinoza, and Leibniz.** Dr. SHELDON. Two points.

M. and W. at 10.30.

\* 18—**Political and Social Ethics.** Professor ADLER. Second half-year. One point.

W. and F. at 4.30.

Open to Seniors who have taken Course 2.

\* 20—**Post-Kantian Idealism.** Dr. SHELDON. Two points.

Tu. and Th. at 10.30.

Open to Seniors who have taken Course 3.

\* 21—**Philosophy of Realism.** Dr. MONTAGUE. Two points.

Tu. and Th. at 2.30.

Open to Seniors who have taken Course 3.

### Psychology

**A—The Elements of Psychology.** James's *Psychology*, briefer course. Discussions, practical exercises, and recitations. One and one half points.

Sections I and II, Tu., Th., and S. at 9.30, first half-year. Professor LORD and Dr. JONES.

Prescribed for Juniors, unless taken in Sophomore year.

Section III, M., W., and F. at 11.30, second half-year. Dr. JONES. Specially arranged for Sophomores who have taken Philosophy 9.

In the first half-year students are assigned to the sections in alphabetical order, but for reasons of weight, with the consent of the Dean, a student may be transferred to a section other than that to which she properly belongs.

**10—Analytic Psychology**, introductory course. Recitations and discussions. Professor LORD. Second half-year. One and one half points.

Tu., Th., and S. at 9.30.

Prerequisite: Course A.

This course is in continuation of Course A. It is designed to study intensively certain topics necessarily omitted altogether, or but briefly discussed in the previous course. James's *Principles of Psychology* and Stout's *Manual of Psychology* will be used as text-books.

\* 2—**Experimental Psychology**, introductory course. Lectures, themes, demonstrations, and experiments. Professor CATTELL. Two points.

Tu. and Th. at 10.30.

Open to Seniors.

\* 3—**Experimental Psychology.** Laboratory work. Two or four hours weekly, counting as one or two points. Professor CATTELL, assisted by Mr. RUGER.

Tu. and Th. at 9.30, 2.30-4.30.

Open to Seniors who are taking Course 2.

## PHYSICS

**1—General Physics.** Mechanics, heat, and sound; first half-year. Magnetism, electricity, and light; second half-year. Professor MALTBY and Miss BROOKS. Two lectures and two hours of laboratory work. Three points.

Tu. and Th. at 11.30.

**2—Mechanics.** First half-year. Miss BROOKS. Two lectures and two or four hours of laboratory work. One and one half or two points.

Tu. and Th. at 11.30.

Prerequisite: Mathematics 1 and 2, and Physics 1.

**3—Sound and Heat.** First half-year. Professor MALTBY. Two lectures and two or four hours of laboratory work. One and one half or two points.

M. and W. at 1.30.

Prerequisite: Mathematics 1 and 2, and Physics 1.

**4—Light.** Second half-year. Miss BROOKS. Two lectures and two or four hours of laboratory work. One and one half or two points.

Tu. and Th. at 11.30.

Prerequisite: Mathematics 1 and 2, and Physics 1.

**5—Electricity and Magnetism.** Second half-year. Miss BROOKS. Two lectures and two or four hours of laboratory work. One and one half or two points.

M. and W. at 1.30.

Prerequisite: Mathematics 1 and 2, and Physics 1.

**6—Physical Chemistry.** Professor MALTBY. Three lectures and two, four, or six hours of laboratory work. Four, five, or six points. Hours to be arranged.

Prerequisite: Chemistry 1, Mathematics 1 and 2, and Physics 1; as a minor to candidates for the degrees of A.M. and Ph.D.; or with a thesis as a major for the degree of A.M. (This corresponds to Physical Chemistry 4, Columbia.)

(For Theoretical Mechanics by Dr. Kasner see *Mechanics 3b*.)

Physiology. See Zoölogy

## ROMANCE LANGUAGES AND LITERATURES

## French

**A—Elementary Course.** Professor WOODWARD. Three points.

M., W., and F. at 10.30.

Prescribed for Freshmen that did not present French at entrance.

**1—Grammar, Reading, Composition.** Professor WOODWARD and Dr. HOLBROOK. Three points.

M., W., and F. at 11.30.

Prerequisite: Course A or elementary entrance French.



**2—General Introduction to the Study of French Literature. Composition.** Professor WOODWARD and Dr. HOLBROOK. Three or four points.

Section I, M., W., and F. at 3.30. Section II, M., W. at 3.30, and F. at 2.30 (and for students entering on Intermediate French, also Tu. at 3.30).

Prerequisite: Course 1 or intermediate entrance French.

**3—Historical French.** Practice in reading, writing, and speaking French. Mr. JORDAN. Three points.

M., W., and F. at 11.30.

Prerequisite: Course 2 or its equivalent.

**4—History of French Literature during the Seventeenth Century.** Lectures, essays. Professor WOODWARD and Mr. BARGY. Three points.

M., W., and F. at 2.30.

Open to students that have taken Course 2 with credit, or Course 3.

**5—History of French Literature during the Eighteenth Century.** Lectures, essays. Mr. BARGY. Three points.

M., W., and F. at 1.30.

Prerequisite: Course 4 or its equivalent.

**7—History of the Literary Movement in France during the First Half of the Nineteenth Century.** Mr. BARGY. Two points.

M. and W. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

Courses 7 and 8 are given in alternate years.

**[8—History of the Literary Movement in France during the Second Half of the Nineteenth Century.** Mr. BARGY. Two points.

Open to Seniors that have taken Course 4 or its equivalent.

*Not given in 1904-05; given in 1905-06.]*

**\* 11—History of Literary Criticism in France, with special attention to Sainte-Beuve and Brunetière.** Mr. BARGY. Two points.

Tu. and Th. at 3.30.

Open to Seniors that have taken Course 4 or its equivalent.

Courses 11 and 15 are given in alternate years.

**[\* 15—French Literature in the Sixteenth Century, with special attention to Montaigne.** Mr. BARGY. Two points.

Open to Seniors that have taken Course 4 or its equivalent.

*Not given in 1904-05; given in 1905-06.]*

**\* 13—Old French: Reading of Selected Extracts.** Professor TODD. First half-year. One point.

Tu. and Th. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

**\* 14—Old French: Reading of Complete Texts.** Professor TODD. Second half-year. One point.

Tu. and Th. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

**D—French Conversation, Elementary Course.** One hour per week.  
Mr. ———.

*May be omitted in 1904-05.*

The aim of this course will be to give the students an opportunity to use the vocabulary acquired by previous reading. It will consist of easy anecdotes read and discussed in the class, introducing subjects of every-day conversation. It cannot be counted for a degree.

### Italian

**1—Elementary Course.** Grammar, reading, composition. Professor SPERANZA. Three points.

M., W., and F. at 11.30.

Prerequisite: French **A** and German **A** or their equivalents. Italian **1** may not be taken at the same time with Spanish **1**.

**[2—Italian Literature of the Fourteenth and Fifteenth Centuries, exclusive of the Divina Commedia.** Composition. Professor SPERANZA. Three points.

Prerequisite: Course **1** or its equivalent.

*Not given in 1904-05; given in 1905-06.]*

**[3—Italian Literature from 1500 to 1750.** Composition. Professor SPERANZA. Three points,

Prerequisite: Course **1** or its equivalent.

*Not given in 1904-05; given in 1906-07.]*

**4—Modern Italian Literature.** Composition. Professor SPERANZA. Three points.

M., W., and F. at 1.30.

Prerequisite: Course **1** or its equivalent.

Courses **2**, **3**, and **4** are given in successive years.

**\* 5—Critical Study of Dante's Divina Commedia.** Professor SPERANZA. Two points.

Tu. and Th. at 2.30.

Open to qualified Seniors.

**\* 6—Outline History of Italian Literature.** Professor SPERANZA. One point.

Tu. at 3.30.

Open to qualified Seniors.

### Spanish

**1—Elementary Course.** Grammar, reading, and composition. Mr. ———. Three points.

M., W., and F. at 10.30.

Prerequisite: French **A** and German **A** or their equivalents. Spanish **1** may not be taken at the same time with Italian **1**.

**2—Advanced Course. Don Quixote and the Age of Cervantes.** Grammar, reading, composition. Mr. ———. Three points.

M., W., and F. at 11.30.

Prerequisite: Course 1 or its equivalent.

Courses 2 and 3 are given in alternate years.

**[3—Advanced Course. The Spanish classical drama.** Grammar, reading, composition. Mr. ———. Three points.

Prerequisite: Course 1 or its equivalent.

*Not given in 1904-05; given in 1905-06.]*

### Romance Philology

**\* 1—Introduction to Romance Philology.** Professor TODD. Two points.

M. and W. at 3.30.

### ZOÖLOGY

**2—Elementary Biology and Zoölogy.** Professor CRAMPTON, Mr. KELLICOTT, Miss DEDERER.

(a) General Biology and General Zoölogy. Two lectures and four hours of laboratory work. Four points.

(b) General Biology and General Zoölogy, as defined above, together with one lecture and two hours of laboratory work in Embryology during the second half-year. Five points.

(c) General Biology and General Zoölogy, as defined above, together with one lecture and two hours of laboratory work throughout the year (Histology and Physiology, first half-year; Embryology, second half-year). Six points.

Tu. and Th. at 1.30. Laboratory work in Biology and Zoölogy, 2.30-5.30 Tu. and Th. Hours for Histology and Physiology, and Embryology to be arranged.

Laboratory fee, \$5.

Open to Juniors and Seniors; especially designed for students that have taken Physics 1, Chemistry 1, and Botany 51.

This course is designed for students of psychology, physiology, geology, and medicine, as well as for those who intend to pursue zoölogy and botany.

**3—General Zoölogy. Advanced Course.** Professor CRAMPTON, Mr. KELLICOTT, Miss DEDERER, and Miss ———. Three lectures, six hours of laboratory work. Six points.

Hours to be arranged.

Laboratory fee, \$5.

Prerequisite: Course 2 or its equivalent.

This course is designed for students intending to enter medicine, also for students of zoölogy and botany, as graduate subjects.



**51—General Physiology.** General principles of animal Physiology and Histology. Mr. KELLICOTT. Two lectures, and four hours of demonstrations and laboratory work. Four points.

Laboratory fee, \$5.

Open to Juniors and Seniors.

This course is designed for students of zoölogy, botany, and psychology as graduate subjects, as well as for students intending to study medicine, and may be taken together with, or subsequent to, Course 2.

**SCHEME OF ATTENDANCE FOR UNDERGRADUATES, 1904-1905**  
**MONDAY, WEDNESDAY, AND FRIDAY**

9.30	10.30	11.30	1.30	2.30	3.30	4.30
Botany 51 Economics A (I) Economics A (II) [F.] English 21 [M. and W.] †Geography 2 [M. and F.] *German 7 [W. and F.] Greek 32 Latin A Mathematics A (I) † Mathematics 51 [M. and W.] *Music 1 [M.] Philosophy 2	Anthropology 1 [M. and W.] Economics A (II) [M. and W.] Economics 1 [M. and W.] English 16 [M. and W.] French A †Geography 2 [M. and F.] German A (I) [M. and F.] German 3a (I) *German 10b [W. and F.] History 50 Latin 1 Mathematics A (II) Mathematics 1-2 *Philosophy 15 [M. and W.] Spanish 1	Anthropology 7 [M. and W.] Chemistry 1 [M. and W.] English 17 [M. and W.] English 19 [M. and W.] French 1 French 3 *German 20 [W. and F.] Greek B Greek 3 History 4 Italian 1 Latin 3 Latin 34 Mathematics A (III) Mathematics 6 Mathematics 9 Philosophy 9 Psychology A (III) Spanish 2	Economics 2c-2b [W. and F.] English 10 French 5 German 2 (I) German 3a (II) Greek 6 Italian 4 Mathematics 3 *Philosophy 3 [M. and W.] Physics 3-5 [M. and W.]	*Astronomy 2 [M. and W.] French 2 (II) [F.] French 4 French 7 [M. and W.] German A (II) German 3b *German 23 [M. and W.] Greek A Greek 31 History 31 [M. and W.] Latin 4 Mathematics 8 Philosophy 1	French 2 (I) French 2 (II) [M. and W.] German 2 (II)	*German 11 [M. and W.] *Philosophy 18 [W. and F.]

Courses marked with an asterisk \* are given at Columbia University, those marked with a dagger † are given at Teachers College.

# SCHEME OF ATTENDANCE FOR UNDERGRADUATES, 1904-1905 TUESDAY, THURSDAY, AND SATURDAY

9.30	10.30	11.30	1.30	2.30	3.30	4.30
*Anthropology 2 [Tu. and Th.] †Geography 1 [Tu. and Th.] History A (I) [Tu. and Th.] Latin B [Tu. and Th.] Mathematics A (IV) [Tu. and Th.] Psychology A (I-II) [Tu. and Th.] *Psychology 3 [Tu. and Th.] Psychology 10	*Anthropology 5 [Tu. and Th.] Botany 52 [Tu. and Th.] English A [Tu. and Th.] †Geography 1 [Tu. and Th.] German 4 [Tu. and Th.] History A (II) [Tu. and Th.] Latin 35 [Tu. and Th.] *Philosophy 20 [Tu. and Th.] *Psychology 2 [Tu. and Th.]	*Astronomy 1 [Tu. and Th.] Economics 11-12 [Tu. and Th.] English 1 [Tu. and Th.] English 3 [Tu. and Th.] English 15 [Tu. and Th.] German 6b [Tu. and Th.] Latin 2 [Tu. and Th.] Latin 22 [Tu. and Th.] Latin 23 [Tu. and Th.] Physics 1 [Tu. and Th.] Physics 2-4 [Tu. and Th.]	Economics 6-3 [Tu. and Th.] English B [Tu. and Th.] German 8 (I) [Tu. and Th.] *Philosophy 8 [Tu. and Th.] Zoology 2 [Tu. and Th.]	*French 13-14 [Tu. and Th.] German 8 (II) [Tu. and Th.] German 25 [Tu. and Th.] Greek 7 [Tu. and Th.] History 3 [Tu. and Th.] History 16 [Tu. and Th.] *Italian 5 [Tu. and Th.] *Philosophy 4 [Tu. and Th.] *Philosophy 21 [Tu. and Th.] Sociology 15 [Tu. and Th.]	*French 11 [Tu. and Th.] History 11 [Tu. and Th.] *Italian 6 [Tu. and Th.] *Philosophy 6 [Tu. and Th.] Sociology 16 [Tu. and Th.]	†Geography 3 [Tu. and Th.] *Philosophy 7 [Tu. and Th.]

Courses marked with an asterisk \* are given at Columbia University, those marked with a dagger † at Teachers College.



## SCHOLARSHIPS

NUMBER AND VALUE.—There are altogether thirty-eight scholarships and two special funds for the aid of needy and deserving students. The value of each of these scholarships, unless otherwise stated, is \$150 annually, which sum is applicable to the fees of the year. Under certain circumstances those scholarships known as Student Scholarships may be divided between two applicants.

CHARACTER.—The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations on the nomination of the Committee on Admission. The latter are awarded by the Committee of the Trustees on Scholarships, on the nomination of the corresponding Committee of the Faculty, to worthy students who have passed at least one year in College. They are held, unless otherwise stated, *for one year only*.

CONDITIONS.—Two scholarships may not be held by the same person. Should two scholarships be assigned to the same student in one year, she must at once make choice as to which she will retain. If a student fail to maintain a grade of at least C in all courses which she pursues or if she commit a breach of good order, she shall forfeit her scholarship and, in the case of non-competitive scholarships, shall be ineligible for reelection the following year.

APPLICATION.—Before the first of April of each year all applications for non-competitive scholarships, accompanied with full credentials, must be filed at the Dean's office upon special blanks to be obtained there. Candidates for the competitive scholarships to be awarded on the basis of the June examinations should, when filing an application with the Secretary of the College Entrance Examination Board (See p. 17), notify the Secretary of that Board of their intention to compete for a scholarship.

### Competitive Scholarships

These, subject to the foregoing general regulations for scholarships, are as follows:

#### 1. *Open to all Students:*

Trustees' Competitive Scholarship .....	I
Awarded annually by the Board of Trustees to the student who, in June, passes the best complete entrance examination in all subjects. It may be held for one year only.	

Jessie Kaufmann Scholarship..... 1  
Established in 1902 by Mr. Julius Kaufmann in memory of his daughter Jessie Kaufmann. The annual income from \$4,000 is awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

2. *Open to Particular Students:*

Brooklyn Scholarships..... 12  
Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Low of a memorial building for the university library. They are open to students who have received their training in either the public or the private schools of Brooklyn, New York, and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June, without conditions, the best complete entrance examinations in all subjects. They may be held for the entire college course, but a holder, while retaining the title "Brooklyn Scholar," may transfer the income to any properly qualified candidate from Brooklyn without having her action made a matter of public record.

Lucille Pulitzer Scholarships..... 3  
Founded by Mr. Joseph Pulitzer in memory of his daughter Lucille Pulitzer. They are awarded to undergraduate students entering the college from the city of New York who are found to have passed excellent entrance examinations and to be worthy of financial aid. They may be held for the first three years of the college course only.  
The first, founded in 1899, is the income of \$10,000, and will be awarded in 1906, 1909, and corresponding years. The second and third, given in 1903, represent each one half the income of \$15,000, and will be awarded in 1904 and 1905, respectively, 1907 and 1908, and corresponding years.

Non-competitive Scholarships

These, subject to the general regulations for scholarships, are as follows:

1. *Open to all Students:*

Student Scholarships..... 12  
Given by the Committee of the Trustees on Scholarships. They are supported by the income of a permanent fund that is being established and that at present amounts to \$9,580 and of the Arthur Brooks Fund (see below.) The remainder is supplied by annual provision.

- Ella Weed Scholarship..... I  
 Founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.
- Veltin School Scholarship..... I  
 Given by the alumnae of Mlle. Veltin's School.
- Jennie B. Clarkson Scholarship... I  
 Founded in 1898 by Mrs. W. R. Clarkson.
- Emily James Smith Scholarship..... I  
 Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College. It is awarded in conference with the founder.
- Anna E. Barnard Scholarship..... I  
 Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded in conference with the founder.
- Brearley School Scholarship..... I  
 Founded in 1899 by pupils and former pupils of the Brearley School.
- Eliza Taylor Chisholm Memorial Scholarship..... I  
 Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which association reserves the privilege of precedence for such candidates as it may recommend.
- Graham School Scholarship..... I  
 Given in 1901 by the Graham Alumnae Association.
2. *Open to Particular Students:*
- Mrs. Donald McLean Scholarship..... I  
 Given in 1898 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.
3. *Special Funds for the Aid of Needy and Deserving Students:*
- Arthur Brooks Fund.  
 A fund of \$5,000 given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. This fund is at present applied to the maintenance of the Student Scholarships.
- Fiske Scholarship Fund.  
 A sum of \$240, the income of a fund given by Mrs. Martha T. Fiske-Collord, placed at the disposal of the Dean of Barnard College.



## PRIZES

GENERAL CHARACTER AND REGULATIONS.—The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

**Herrman Botanical Prize**

A prize of \$50, founded by Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

**Kohn Mathematical Prize**

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a Senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

**The Bunner Medal**

The H. C. Bunner Gold Medal, provided for by the interest upon a fund of one thousand dollars, established in November, 1896, by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. Essays must be submitted to the President on or before May 1. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1904, is "Style in the American State Papers of the Eighteenth Century"; for 1905, "American Tragedy"; for 1906, "Thomas Jefferson as a Man of Letters."

## HONORS

Honors are of two kinds, departmental and general honors.

Departmental honors shall be known for the four college years respectively as first year honors, second year honors, third year honors, and final honors.

Departmental honors will be granted in any year in any department for high excellence in such courses as may be decided upon by the department to constitute the full regular work of that year. Such excellence is to be indicated by the grade A obtained in the mid-year and final reports and by the satisfactory performance of some additional work set by the department.

No student, except by special decision of the Committee on Honors, will receive honors in any department if she has received a mark lower than C in any of the courses taken by her during the year in which she is a candidate for honors.

Students who have won honors in any department successively during the Sophomore, Junior, and Senior years, will be granted at graduation highest final honors in said department.

General honors will be granted at the end of every college year to all students who during said year have obtained grade A in the majority of the courses taken by them, provided they have not fallen below grade B in any of their courses in said year.

Highest final honors will be granted at graduation to all students who have obtained general honors at the end of their Sophomore, Junior, and Senior years.

Students who wish to be candidates for honors in any department must announce their candidacy to the head of said department not later than the first of April of the year in which they desire to compete for honors.

For detailed information regarding the courses that are considered to constitute the full regular work of each year, and the additional work that will be set by any department, the candidate is referred to the head of the department concerned.

Each student to whom honors are awarded in any department will receive, immediately after Commencement, a certificate of such award under the seal of the University, and bearing the signatures of the President and the Dean.

### THE UNIVERSITY LIBRARY

The University Library is open each week day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M. October-June; and until 10 P.M. July-September. All officers, students, and graduates of all departments of the University have free access to the Library and may draw books for home use.

A reference library of about 10,000 volumes of carefully selected reference books and of the most important works on all subjects in standard editions, representing the leading authors in all literatures, is placed in the general reading-room directly accessible to all readers.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

The Library contains over 350,000 volumes, exclusive of unbound pamphlets and duplicates. The additions to the Library for the past five years have averaged over 18,000 volumes annually.

### CHAPEL SERVICE

Chapel service is held on Tuesday and Friday of each week at half-past twelve in the College assembly room. The service lasts about twenty minutes and is usually conducted by some clergyman of the city, or by some officer of the University. Attendance is entirely voluntary.

EHRICH, ELSIE.....	54 West 75th St.
FARMER, MILDRED BLANCHE.....	New Rochelle, N. Y.
FARRELY, GRACE MARIE.....	224 West 137th St.
FETTRETCH, EDITH BERRELL.....	335 West 88th St.
FISHER, ANNIE FULLER.....	606 West 113th St.
FLETCHER, SALLIE FAULKNER.....	278 Prospect Pl., Brooklyn
FORMAN, ANITA GRACE.....	2394 Seventh Ave.
FRANKLIN, MARION.....	257 West 112th St.
GOODYEAR, KATHARINE FRANCIS (Mrs. N. GOODYEAR).....	371 West 119th St.
GRAY, MARY GOULD.....	246 Fourteenth St., Brooklyn
GREENE, ANNE DUNKIN.....	49 West 68th St.
HANDY, EDITH BERKELEY.....	New Brighton, N. Y.
HEIDENHEIMER, ALYNE BENDIT.....	1078 Madison Ave.
HENDRICKS, ETHEL.....	18 East 80th St.
HEYMAN, BLANCHE.....	134 West 131st St.
HILL, AMELIA LEAVITT.....	335 West 84th St.
HOCHHEIMER, HELEN ALICE.....	1311 Madison Ave.
HOFFMAN, MARGIE ETHEL.....	356 Henry St., Brooklyn
HOYT, SARAH FENTON.....	17 East 95th St.
HUTCHINSON, EMILIE JOSEPHINE.....	287 Carroll St., Brooklyn
JOHNSTON, MARIE LOUISE.....	250 West 138th St.
KAPLAN, CARRIE.....	98 East Broadway
KENNEDY, ANNA JOSEPHINE.....	361 Fourth St., Brooklyn
LEE, MARY DAY.....	New Rochelle, N. Y.
LELAND, ABBY PORTER.....	Mechanicsville, N. Y.
LELAND, FANNIBELLE.....	943 Lexington Ave.
LEVY, EDWINA LEAH.....	53 East 73d St.
LOCK, MARY.....	Plainfield, N. J.
LYALL, PAMELA WARREN.....	Summit, N. J.
MATHEWS, LAURA ELIZABETH.....	Newark, N. J.
MEYER, FLORENCE ALMA.....	Park Hill, Yonkers, N. Y.
MOTT, ISABELLE.....	155 West 77th St.
MUNROE, ELEANORA LOUISE.....	262 West 122d St.
MURRAY, LILY SYLVESTER.....	Montclair, N. J.
NYE, FLORENCE ISABELLE.....	306 West 94th St.
PALISER, HELEN LETITIA.....	1397 Ocean Ave., Flatbush, N. Y.
PARKER, LAURA HILLIER.....	438 West 57th St.
PURDON, FRANCES HOPE.....	606 West 114th St.
REEDER, RUTH ANGELINE.....	Hastings, N. Y.
REILEY, ANNA CAMPBELL.....	North Tarrytown, N. Y.
REITLINGER, BLANCHE HORTENSE.....	66 West 68th St.
RHEINSTEIN, ALICE MARION.....	329 West 71st St.
SCHULTZ, NINA.....	127 West 85th St.
SCOTT, BESSIE TRIMBLE.....	Passaic, N. J.
SMITH, ALICE VAN WOERT.....	183 West 135th St.
SMITH, MARGUERITE.....	535 West 159th St.
SNYDER, ARRIETTA.....	Newburgh, N. Y.
SOLOMON, CHARLOTTE LOUISE.....	Syracuse, N. Y.
SPARKMAN, LYDIA HOLT.....	Paterson, N. J.
STABER, HILDA LOUISE.....	360 Clinton St., Brooklyn
STAPLER, MARTHA GAUSE.....	301 West 77th St.
TALBOT, ABIGAIL ADAMS.....	Flushing, N. Y.
TATTERSHALL, ANNA SARAH.....	White Haven Pa.
THOMPSON, MARTHA.....	166 West 87th St.
THORP, ANNA FRANCES MURIEL.....	Paterson, N. J.
WELLE, EDITH.....	Paterson, N. J.
WILCOX, HARRIET LESLIE.....	Yonkers, N. Y.
Junior Class.....	79



## SOPHOMORE CLASS

BLACKBURN, LOUISA POWELL.....	Baltimore, Md.
BOYD, VIRGINIA TUCKER.....	40 Perry St.
BRADFORD, ELIZABETH ELLIOT.....	Columbus, O.
BRAUTIGAM, ELISABETH RANDALL.....	East Orange, N. J.
BREWSTER, ALICE DOROTHY.....	527 West 124th St.
BROWN, MARJORIE FERGUSON.....	391 West End Ave.
BROWNE, MABEL EMMA.....	1539 Pacific St., Brooklyn
CARPENTER, LULU JANE.....	Port Chester, N. Y.
CHAPMAN, EMMA AUGUSTA.....	Jersey City, N. J.
CHIPPERFIELD, FAITH.....	606 West 115th St.
CONDIT, JESSIE PARSONS.....	East Orange, N. J.
DARLING, NELLIE OAKES.....	Stony Brook, L. I.
DONIGAN, ELIZABETH AMANDA.....	Mt. Vernon, N. Y.
DORSETT, LOVENIA ADELE.....	Jamaica, N. Y.
EASTMAN, LUCY PUTNAM.....	4 East 70th St.
ERNST, MATILDA.....	Huntington, L. I.
ERSTEIN, ROSE.....	43 East 63d St.
EVANS, ELIZABETH GRACE.....	418 West 160th St.
FAIRCHILD, RUTH DEANE.....	New Britain, Conn.
FONTAINE, MARIE LOUISE.....	541 West 124th St.
FRANK, EDNA EMILIE.....	138 West 78th St.
FRANKFIELD, HELEN.....	26 West 85th St.
FRICKE, WILLA MAY.....	431 Riverside Drive
FRIED, ROSA.....	1 West 94th St.
GRABAU, MARY ANTIN (MRS. A. W. GRABAU).....	527 West 124th St.
HALL, CAROLINE DUMONT.....	Mt. Vernon, N. Y.
HART, ADELAIDE.....	1230 Amsterdam Ave.
HASKELL, ALICE.....	Providence, R. I.
HAYNES, JESSIE ELIZABETH.....	2213 Fifth Ave.
HEIMANN, EDITH.....	315 West 105th St.
HERRMANN, SENTA.....	147 West 103d St.
HOLDEN, ELEANOR SANFORD.....	Madison, N. J.
HOWARD, LILLIAN ALICE CATHERINE.....	University Heights
JAMES, BERTHA CLARKSON.....	Rahway, N. J.
KNOX, ETHEL MAY.....	256 West 123d St.
KOHUT, ELSIE.....	44 West 58th St.
LEE, ANNIE.....	Poland, O.
LEWIS, BESSIE LOUISE.....	Mt. Vernon, N. Y.
LILIENTHAL, FLORENCE.....	60 West 129th St.
LOEW, FREDERICKA.....	10 Amsterdam Ave.
MACCOLL, GRACE BEATRICE.....	410 West 115th St.
MACCOLL, JEANNETTE.....	410 West 115th St.
MARKS, BLANCHE FLORENCE.....	1034 Lexington Ave.
MAYER, FANNY.....	41 East 72d St.
MAYO-SMITH, LUCIE.....	305 West 77th St.
MURTHA, MARY WASHBURN.....	539 West 148th St.
NEWLAND, ANNA MAY.....	550 West 113th St.
NIES, MINNIE ANTOINETTE.....	Paterson, N. J.
PADDOCK, JOSEPHINE.....	141 West 70th St.
PLATE, HAZEL HUDNALL.....	416 West 118th St.
POST, CATHARINE MARY.....	Woodside, N. Y.
POST, ELIZABETH SMITH.....	Woodside, N. Y.
PURDUE, OLIVE CONDIT.....	East Orange, N. J.
RAE, ANNE MUTCH.....	1142 Franklin Ave.
RALPH, VIRGINIA.....	2881 Broadway
REANEY, ELLA JANE.....	216 West 94th St.
REEDER, IRENE MAY.....	Hastings, N. Y.

ROHR, MADELINE DOROTHEA.....	Westchester, N. Y.
RUSSELL, ISABELLE KATHARINE.....	119 Pacific St., Brooklyn
SCHLAGETER, FLORENCE.....	Paterson, N. J.
SCHMIDT, CLARA HELENE.....	Mt. Vernon, N. Y.
SEELIGMAN, IRMA SCOTT.....	231 West 129th St.
SIMONS, MARION LODER.....	Port Chester, N. Y.
SLATOR, HATTIE.....	West New Brighton, N. Y.
SOMBORN, EDITH.....	125 East 69th St.
STIEBRITZ, ELSIE.....	Long Island City, N. Y.
STITT, EDNA WALMSLEY.....	156 West 93d St.
TAYLOR, VIRGINIA.....	East Orange, N. J.
TOMS, ELIZABETH IVERSON.....	Unionport
WATSON, ETHEL AGNES.....	Hackensack, N. J.
WELLS, MILDRED ADELE.....	East Orange, N. J.
WILLIAMS, HELEN ISABEL.....	1264 Boston Road
Sophomore Class.....	72

## FRESHMAN CLASS

ADAMS, IRENE BENNETT.....	Mt. Kisco, N. Y.
ALTHAUS, AMALIE LOUISE.....	Bedford Park
ARMSTRONG, LAURA JULIA.....	New Rochelle, N. Y.
AUERBACH, EVA FANNY.....	1239 Madison Ave.
BAILEY, MARGARET HART.....	92 Fourth Ave.
BATTELL, HANNAH MANSFIELD.....	1007 Putnam Ave., Brooklyn
BERNHEIMER, GRACE LILIAN.....	35 West 72d St.
BERNKOPF, BEATRICE MOLLY.....	Wellsboro, Pa.
BOOTE, MABEL LOUISE.....	Yonkers, N. Y.
BRAND, JOSEPHINE.....	332 Third Ave.
BURCHENAL, EMMA HOWELLS.....	142 West 104th St.
BURR, EMILY THORP STEDMAN.....	Greenwich, Conn.
BUSHONG, ALICE MARGARET.....	442 Ninth St., Brooklyn
CAMPBELL, CLEMENTINE ELIZABETH.....	2309 Seventh Ave.
CANNON, GERTRUDE LOUISE.....	Clay Ave. and 175th St.
CARROLL, ANNE.....	Warwick, N. Y.
CHADWELL, ELIZABETH WILLARD.....	Morristown, N. J.
COHEN, AMELIA.....	116 West 84th St.
COLBY, SABRA CARRINGTON.....	2013 Fifth Ave.
COLE, EMMA CORNELIA.....	371 West 119th St.
COLE, EVANGELINE.....	Sea Cliff, N. Y.
DISBROW, JEAN.....	74 Convent Ave.
EDLER, FRIDA EMMA.....	Woodside, N. Y.
ERNST, AGNES ELIZABETH.....	1368 Prospect Ave.
FOSHAY, FLORENCE ELIZABETH.....	Port Chester, N. Y.
FRAME, MARIE TERESA.....	Mt. Vernon, N. Y.
FREED, JULIA HUELAT.....	110 West 74th St.
FURTH, FLORENCE BELLE.....	233 East 60th St.
GANS, MADELAINE BERNHEIM.....	52 West 71st St.
GARDINER, CARA LESLIE.....	10 West 103d St.
GARRISON, MARJORIE.....	Yonkers, N. Y.
GELBACH, MARIE.....	Hoboken, N. J.
GIBSON, CATHERINE BYRNE.....	Yonkers, N. Y.
GOEDKOOP, ANNIE ELIZABETH.....	Paterson, N. J.
GOODHARDT, HELEN.....	21 West 81st St.
GORDON, FLORENCE.....	Guttenberg, N. J.
GRANT, LUCILE.....	Stamford, N. Y.
GREEN, EDNA RAYMOND.....	Princeton, N. J.

GREENWOOD, ELEANOR MAUD.....	233 West 138th St.
HARVITT, HELEN JOSEPHINE.....	192 Hooper St., Brooklyn
HAYS, ALMA LAURA.....	254 West 105th St.
HECHT, BLANCHE.....	Rochester, N. Y.
HELLIN, LILIAN.....	1085 Park Ave.
HENDERSON, HAZEL.....	7 Henry St., Flatbush, N. Y.
HERZFELD, BEATRICE FELICIA.....	147 West 86th St.
HILBORN, JENNIE.....	23 West 96th St.
HORAN, MABEL EMILY.....	7 West 92d St.
HURTY, KATHLEEN ELIZABETH.....	Pelham, N. Y.
ISRAEL, MARGUERITE BAER.....	25 East 99th St.
JOHNSON, LUCETTA PITNEY.....	Morristown, N. J.
KEENEY, SARAH.....	35 West 93d St.
KOHN, IRENE CONSTANCE.....	13 East 75th St.
LAY, SARA EMMA.....	2137 Fifth Ave.
LEETE, ADALINE ROSELLA.....	Oneida, N. Y.
LIEBMANN, CLARA (Mrs. C. LIBBMANN).....	501 West 113th St.
LORD, MARY ELIZABETH.....	Allston, Mass.
McLANE, FANNIE MOULTON.....	3135 Broadway
McLAUGHLIN, PIERINA.....	256 West 136th St.
MACDONALD, MABEL PERKINS.....	803 Madison Ave.
MACEWAN, EMILY LAMONT.....	Jersey City, N. J.
MARKLEY, EILEEN HUGHES.....	109 West 90th St.
MARRIN, MARIE JOSEPHINE AINSWORTH.....	233 West 45th St.
MORITZ, BEULAH.....	Montgomery, Ala.
ODENCRANTZ, LOUISE CHRISTINA.....	271 West 122d St.
OESTERLEIN, CHARLOTTE ROSE.....	19 West 129th St.
PERKINS, ELSIE MILLICENT.....	Port Chester, N. Y.
PERRY, HELEN CUSHING.....	440 West End Ave.
POINTS, JULIET STUART.....	Jersey City, N. J.
PRATT, JOSEPHINE SOUTHWORTH.....	New Rochelle, N. Y.
PRICE, NINA MARGUERITE.....	19 East 48th St.
RAPP, KATHERINE LOUISE.....	25 West 84th St.
REARDON, MARY CATHERINE RUTH.....	Rye, N. Y.
RICE, JESSAMINE BOZEMAN.....	Montgomery, Ala.
RICH, MABEL ELIZABETH WEISS.....	Mt. Vernon, N. Y.
ROSEMON, ETHEL MAY.....	413 Quincy St., Brooklyn
ROSSBACH, IRMA.....	1 West 86th St.
RUSK, ELIZABETH.....	St. Joseph, Mo.
SCHACHTEL, ELSIE.....	143 West 16th St.
SCHRAMM, ETHEL BELL.....	510 West 124th St.
SHINN, NATALIE IDA.....	Pelham Manor, N. Y.
SHONINGER, HELEN.....	37 West 89th St.
SIMON, JEANNETTE.....	12 West 131st St.
SMITH, CLARA ELIZABETH.....	Woodside, N. Y.
STAPP, FLORENCE MAY.....	Dunkirk, N. Y.
STEARNS, MABEL FRYDA.....	410 West 115th St.
STRAUSS, CONSTANCE RECKENDORFER.....	20 East 74th St.
TIBBITS, MARY EDLA.....	Astoria, N. Y.
TOWNSEND, KATHARINE.....	331 West 101st St.
TRACY, HELEN ABBIE.....	Rockville Centre, N. Y.
TREDWELL, ELIZABETH ALDEN SEABURY TREDWELL.....	258 West 52d St.
TRUE, DOROTHY.....	328 West 83d St.
TURNBULL, GRACE CLAPPERTON.....	East Orange, N. J.
VALENTINE, MURIEL.....	21 West 121st St.
WALKER, MARY BARBOUR.....	434 Central Park West
WARDELL, LILIAN MAY.....	19 West 84th St.
WHITE, MARGARET MARIE.....	Croton, N. Y.



WIESNER, LILLIAN ADELAIDE.....	251 West 100th St.
WILKES, EDNA MAJOR.....	153 Lenox Ave.
WOODMAN, SOPHIE PARSONS.....	478 West 150th St.
YALE, DAISY IRENE.....	Brewster, N. Y.
YOUNG, JULIA ELEKTRA LUDLOW (Mrs. R. M. YOUNG).....	419 West 118th St.
Freshman Class.....	101

## SPECIAL STUDENTS

ALSOP, GULIELMA FELL.....	96 Remsen St., Brooklyn
ANDERSON, HELEN BEATRICE.....	Astoria, N. Y.
BASS, REUBE.....	Terrell, Tex.
BORG, EDITH DULCE.....	855 Fifth Ave.
BORG, ELSIE HELEN.....	855 Fifth Ave.
BORLAND, GEORGETTE HAVEN.....	116 East 37th St.
CADMUS, MILDRED EMILIE.....	Newark, N. J.
CAHN, ANITA GELLA.....	115 West 131st St.
CALHOUN, MARY EDWARDS.....	245 West 104th St.
ECKEL, GERTRUDE ELIZABETH.....	429 West 162d St.
EMERSON, HELENA TITUS.....	81 Madison Ave.
GANO, LINA E.....	526 West 114th St.
GOLDSMITH, EVELYN MIRIAM.....	50 West 75th St.
GRANDIN, FRANCES BARBERIE.....	116 West 76th St.
HACKETT, IRENE ALICE.....	414 West 118th St.
HARRIMAN, MARY.....	Arden, N. Y.
HENDERSON, NATHALIE.....	27 East 65th St.
JACOBS, EVA.....	92 Morningside Ave.
KESSLER, JOSEPHINE DILWORTH.....	102 West 75th St.
LOINES, HILDA.....	26 Garden Pl., Brooklyn
MCDOWELL, OLIVE VINCENT.....	2783 Broadway
McKEE, ELSA DU BOIS.....	557 West 124th St.
MACDONALD, EVELYN BLUNT.....	Ward's Island, N. Y.
MORGENTHAU, BEATRICE FRANCES.....	248 West 103d St.
MORGENTHAU, FLORENCE JESSIE.....	155 West 77th St.
PALMER, ELIZABETH ROBERTS.....	Elsberry, Mo.
SOLOMON, HELEN.....	1 West 92d St.
STARR, ALJEAN EDWARD.....	Louisville, Ky.
STERN, IRMA REGINA.....	993 Fifth Ave.
STOBO, JEANNETTE RUSSELL.....	925 West End Ave.
WELCH, CATHARINE GALBRAITH.....	Bay Ridge, N. Y.
Special Students.....	31

## STUDENTS OF MUSIC

ALLIOTT, FLORENCE MARTHA.....	Sawbridgeworth, Eng.
ARMS, CLARA LOUISE.....	5410 Washington Ave, Chicago, Ill.
BASHAW, MARY.....	Louisville, Ky.
BIRNIE, LUCY GUNN.....	Governor's Island, N. Y.
BOSHCO, VICTORIA.....	987 Sixth Ave.
BOWDEN, HELEN ELIZABETH SNASDELL.....	Jersey City, N. J.
BOXALL, AVICE.....	8 East 47th St.
BUTLER, SUSAN LOUISA.....	22 Park Ave.
CAMERON, SAMUELLA.....	239 West 136th St.
COSTIKYAN, AROUSIAG.....	East Orange, N. J.
CROCKER, MARY SAMPSON.....	318 West 84th St.
DEMENT, GERALDINE.....	East Orange, N. J.

ERTZ, MARY BLOSSOM.....	2884 Broadway
ERVING, ELEANOR CECILIA.....	17 West 50th St.
EVANS, CLARA LOUISE.....	Richmond Hill, N. Y.
FANNING, RITA.....	221 West 123d St.
FINCH, RUTH AFTON.....	Huntsville, Tex.
GOLDMARK, TEKLA R. R. (Mrs. JAMES GOLDMARK).....	331 West 83d St.
GREER, MARY MORRISON.....	Governor's Island, N. Y.
HAAN, HELEN ILONE.....	57 West 75th St.
HALL, MARIE FREDERICA.....	48 Downing St., Brooklyn
HAMMOND, BESSIE ELLEN.....	Bolivar, Pa.
HENDRICKS, MYRTELLA F. (Mrs. H. H. HENDRICKS).....	336 West 89th St.
KNOX, ELFLEDA ETHEL (Mrs. E. E. KNOX).....	Hoboken, N. J.
LARTER, MARY LORINDA.....	Newark, N. J.
MACMAHON, MARY GERTRUDE.....	109 East 26th St.
MERRIMAN, ELSIE AMELIA.....	New Britain, Conn.
MORGENTHAU, JOSEPHINE (Mrs. H. MORGENTHAU).....	33 West 74th St.
MOSS, OLIVE.....	18 West 131st St.
NEERGAARD, GOLLA DE.....	229 East 21st St.
NELSON, RUTH AUGUSTA.....	510 West 143d St.
RIPLY, ALICE VAN DOREN.....	11 West 56th St.
ROCHESTER, ANNA.....	Englewood, N. J.
RYSPAN, BERTHA.....	262 East Broadway
SHWAB, FLORA.....	Louisville, Ky.
SINCLAIR, JEAN STUYVESANT.....	564 Hancock St., Brooklyn
SLOANE, MARION WALLACE.....	Newark, N. J.
SMITH, ETHEL NATHALIE.....	101 East 69th St.
UNDERHILL, MARGARET VARNUM.....	259 West 84th St.
VAN NEST, MARY VANDERPOOL.....	Glen Ridge, N. J.
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ALLEN, ETHEL BUEL	MIDDLETON, FLORENCE
BRIGGS, EVA ELIZA	MILLER, BERTHA MELVILLE
BUTLER, FLORENCE LOUISE	MOHR, ALICE K. (Mrs.)
CANN, BERTHA	MORRILL, PENELOPE PATTEN
CHEDSEY, MARY C.	OLDENCRANTZ, TULLA CAROLINE
CHURCH, MARION EMMA	OTT, AMELIA HENRIETTA
CLARK, ANNA MAY	RICHARDS, FLORENCE SAEGER
CLARK, LAURA SOPHRONIA	ROGERS, ANNA DESMOND
CLARK, MARY AUGUSTA	ROGERS, SARAH LOGAN
DEACON, HELEN GRAZIELLA	RUSSAK, LOTTA BERNHARDINE
EATON, KATRINA ELIZABETH	SANDERCOCK, BERTHA LOUISE
FORTMAN, AUGUSTA	SCHWERIN, NETTIE PICARD (Mrs.)
GARDNER, MARY LOUISE	SEATON, GRACE MARIA
GILLILAND, J. FLORENCE	STEELE, MINNIE LOUISE
GOERTNER, ROSE	STUART, FLORA
GOODSELL, WILLYSTINE	TAMAGNO, GRACE MARY
GRAHAM, MARIA DANIEL	TAYLOR, BESSIE RHETON
GRISWOLD, FLORENCE KRESSLER	TUCKER, ELEANOR SELDEN
HALEY, ELIZABETH MAUDE	VER PLANCK, JUDITH CROMMELIN
HUTTMAN, MAUDE ALICE	WELSH, HELEN BROMLEY
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 BROMBACHER, CAROLINE GARNER  
 CLARK, EMMA JOSEPHINE  
 CURTIN, MARGARET HIGGINS  
 DAVIS, OLIVE PERCY  
 DRAKE, ALICE DOYLE  
 EASTMAN, CATHERINE CRYSTAL  
 FROST, MARY KENNEDY (Mrs.)  
 GOLDMAN, HETTY  
 GOODLATTE, AMELIA RICHARDSON  
 HERZFELD, ELSA GOLDINA  
 HOLBROOK, MARION GOODHUE  
 HOWARD, CLARE MACLLELEN  
 HUNT, EMELINE KEELER  
 JENKINS, MAMIE ELIZABETH  
 JOHNSON, ADELE REMSEN  
 JOHNSTON, FANNIE  
 JONES, EDNA BLANCHE  
 JUDSON, LEULAH JEANNETTE  
 KEITH, MARY HELEN  
 KRAMER, STELLA  
 LATHAM, MARION ELIZABETH

LEE, MARY  
 LOGAN, LILY  
 LOOMIS, LOUISE ROPER  
 MCCOOK, JANET ALEXANDER  
 MCKINNEY, ISABEL  
 MILLER, MADGE DANIELS  
 MITCHELL, JULIA POST  
 OPPENHEIMER, FLORENCE  
 PARKER, RUTH LOUISE  
 PETER, IVA LOWTHER (Mrs.)  
 PORTER, MITTIE LOVE  
 REED, AMY LOUISE  
 RENNERT, ROSINA JULIA  
 RODMAN, HENRIETTA  
 SHAINWALD, MAISIE SEVILLE  
 SNOW, WINIFRED  
 STEWART, MAUDE GERTRUDE  
 SWAN, EVELYN  
 THALLON, IDA CARLTON  
 TYNG, ELIZABETH MCJIMSEY  
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ADDOMS, JESSIE ALICE  
 ALSOP, GULIELMA FELL  
 BALL, MARION ELIZABETH PRUYN  
 BAMBERGER, ALICE CLARA JUDITH  
 CAHN, ANITA GELLA  
 CHEESMAN, FLORENCE PALMER  
 CLARK, GERTRUDE HELEN  
 CLOUGH, BERTHA  
 COHEN, HELEN LOUISE  
 COLT, MARY ELIZABETH SCOVELL  
 DANIELS, HARRIET MCDOUAL  
 FITCH, ELLICE HEATON  
 FRY, EDNA LOUISE  
 GROFF, MARY  
 GRUENING, CLARA EMILY  
 HARRISON, MARY FREDERICKA  
 HERZFELD, ELSA GOLDINA  
 HOLT, SARAH ADALINE  
 HOPE, IDA MAY  
 HORN, ELIZABETH  
 HOWARD, CLARE MACLLELEN  
 HOWE, RUTH BOUTON  
 JOHNSON, MAY AMERMAN  
 JONES, EDNA BLANCHE

KING, HELEN LOUISE  
 KOHN, LUCILE  
 KROEBER, ELSEBETH  
 LATHAM, MARION ELIZABETH  
 MILLER, JEAN WALLACE  
 NEWTON, ETHEL BLANCHARD  
 POOL, ETHEL MANTER  
 POOLE, KATHERINE ELLEN  
 ROBINSON, AMELIA MAUDE  
 ROGERS, HELEN MILES  
 RUSHMORE, ELLEN RILEY  
 SEGUINE, LAURA RANDOLPH  
 SHAINWALD, MAISIE SEVILLE  
 SHERMAN, LUCY FIDELIA  
 SKINNER, MADELEINE DAYRELL  
 THOMPSON, BESSIE ILSLEY  
 TOSCANO, LOUISE JOSEPHINE COLVIN  
 VAN CISE, LAURA KNOWLES  
 WALLACH, ADELE NETTIE  
 WALTERS, ELIZABETH ROE  
 WARE, ANNA GOODWIN  
 WEDEMAYER, MARIE HENRIETTA DETLEF  
 WILCOX, ETHEL DODGE

## RECIPIENTS OF PRIZES AND HONORS IN JUNE, 1903

Kohn Mathematical Prize  
 MARION ELIZABETH LATHAM  
 Herrman Botanical Prize  
 MARION ELIZABETH LATHAM



## DEPARTMENTAL HONORS

## Sophomore Honors

*German:* EDITH WELLE*Mathematics:* { MARGARET CECILIA BYRNE  
FRANCES HOPE PURDON*Romance Languages:* { ETHEL HENDRICKS  
CARRIE KAPLAN  
EDWINA LEAH LEVY  
BLANCHE HORTENSE REITLINGER

## Junior Honors

*English:* HELEN ERSKINE*German:* { HILMA LEERS  
IDA ETHEL LEWIS*History:* CHARLOTTE ELIZABETH MORGAN*Mathematics:* { MABEL DENTON  
BETTY TRIER

## Final Honors

*English:* { HELEN LOUISE COHEN  
CLARE MACLLELEN HOWARD*History:* HELEN LOUISE COHEN*Mathematics:* MARION ELIZABETH LATHAM

## HOLDERS OF COMPETITIVE SCHOLARSHIPS, CLASS OF 1907

## Trustees' Competitive Scholar

AMALIE LOUISE ALTHAUS

## Lucille Pulitzer Scholar

LILIAN HELLIN

## STATISTICS

The following tabular statement indicates the growth of the College from its foundation:

	1889 to 1890	1890 to 1891	1891 to 1892	1892 to 1893	1893 to 1894	1894 to 1895	1895 to 1896	1896 to 1897	1897 to 1898	1898 to 1899	1899 to 1900	1900 to 1901	1901 to 1902	1902 to 1903	1903 to 1904
UNDERGRADUATES.															
Seniors.....	..	..	..	8	7	9	18	21	22	24	40	52	51	50	78
Juniors.....	..	..	7	7	9	18	21	22	23	24	40	39	48	74	79
Sophomores.....	..	8	7	10	20	18	22	21	28	38	37	51	72	78	72
Freshmen (regular).. " (partly regular)	4 10	7 4	16 ..	26 ..	23 ..	26 ..	20 ..	21 ..	38 ..	45 ..	54 ..	81 ..	98 ..	92 ..	101 ..
	14	19	30	51	59	71	81	85	111	131	171	223	269	294	330
GRADUATE STUDENTS...	..	12	5	5	18	19	33	49	58	75	82	..	..	..	..
SPECIAL STUDENTS.....	..	..	..	..	..	..	..	45	38	28	21	41	27	36	31
Botany.....	12	17	22	30	22	26	19	..	..	..	..	..	..	..	..
Chemistry.....	10	5	5	2	7	3	3	..	..	..	..	..	..	..	..
Political Science.....	..	..	..	..	..	..	11	..	..	..	..	..	..	..	..
MUSIC STUDENTS.....	..	..	..	..	..	..	..	24	20	37	41	37	43	29	41
STUDENTS FROM TEACH- ERS COLLEGE.....	..	..	..	..	..	..	..	..	7	8	18	54	47	45	47
STUDENTS FROM COLUM- BIA UNIVERSITY.....	..	..	..	..	..	..	..	..	..	..	..	29	45	41	51
	22	34	32	37	47	48	66	118	123	148	162	161	162	151	170
TOTAL REGISTRATION..	36	53	62	88	106	119	147	203	234	279	333	384	431	445	500
DEGREES CONFERRED...															
A. B.....	..	..	..	8	7	8	18	22	22	21	39	50	50	47	..
A. M.....	..	..	..	..	2	1	9	11	11	16	18	..	..	..	..
Ph.D.....	..	..	..	..	..	1	..	..	2	2	1	..	..	..	..

## APPENDIX

### AGREEMENT BETWEEN THE TRUSTEES OF COLUMBIA COLLEGE IN THE CITY OF NEW YORK AND BARNARD COLLEGE, NEW YORK CITY

THIS AGREEMENT, made the nineteenth of January, 1900, between  
THE TRUSTEES OF COLUMBIA COLLEGE IN THE CITY OF NEW YORK,  
and BARNARD COLLEGE (hereinafter referred to respectively as "Columbia University" or "the University," and "Barnard College").

#### WITNESSETH:

For the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is mutually covenanted and agreed:

FIRST. That the President of the University shall be, *ex-officio*, President of Barnard College, and if not already a Trustee of Barnard College he shall be so elected at the earliest opportunity. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

SECOND. That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

THIRD. That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College. Whenever Barnard College shall maintain ten or more professors in its Faculty it shall be entitled to a representative in the Council additional to the Dean.

FOURTH. That Barnard College shall provide for, support, and maintain such officers of instruction as may, from time to time, be agreed on, as follows, to wit:

They shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of

the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University—For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

Members of the Faculty of Barnard College may be either men or women.

In the month of January in each year, or at such other time as may be mutually agreed upon, the Dean of Barnard College, with the approval of the Trustees of Barnard College, and after conference with the heads of Departments in such College, shall submit to the President of the University a statement, showing:

*First.* The estimated number of the students in each class at Barnard College for whom instruction is to be provided during the next academic year.

*Second.* The number and grade of officers of instruction, and amount of service desired in each subject.

Such statement shall be subject to the approval and revision of the President, upon all questions not reserved by this agreement to the Trustees or Dean of Barnard College.

FIFTH. That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College, except that courses open to Seniors of Columbia College which are counted towards a Teachers College diploma shall continue to be open to Seniors in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the Senior year, other than the courses leading towards a Teachers College diploma, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, as hereinbefore provided, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

SIXTH. That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.



The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

SEVENTH. That, so long as this Agreement is in force, Barnard College shall grant no degree. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this Agreement. But this Agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

EIGHTH. That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof; it being distinctly understood and agreed that the University is and shall be under no implied obligation, responsibility, or liability, of any kind whatsoever, for the maintenance, support, direction, or management of Barnard College, or for the disbursement of the income thereof, except as stated in Section 4 of this Agreement; and that all and every such obligation or liability shall be strictly limited to the duties and obligations expressly and in terms assumed and agreed to by the University.

NINTH. That for each student of Barnard College pursuing courses in the University in the Senior year leading to a degree, Barnard College shall pay the University at the rate of \$10 an hour per week throughout the year, with a maximum fee of \$120 a year for any one student.

TENTH. That the libraries of the University and of Barnard College shall be open upon equal terms to all women students of the University and of Barnard College.

ELEVENTH. This Agreement may be modified at any time by mutual consent expressed in writing, and may be terminated at the end of any academic year, after one year's notice in writing from either party to the other.

TWELFTH. This Agreement shall take effect immediately.

## ACADEMIC CALENDAR

- 1904—Aug. 31—Wednesday. Last day for filing applications for delinquent examinations.
- Sept. 12—Monday. Last day for filing applications for September entrance examinations by candidates for admission.
- Sept. 19—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.
- Sept. 21—Wednesday. Registration begins.
- Sept. 27—Tuesday. Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
- Sept. 28—Wednesday. First half-year, 16th year, begins. Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.
- Oct. 25—Tuesday  
to
- Oct. 31—Monday, inclusive. Celebration of the 150th Anniversary of the granting of the charter of King's College.
- Nov. 8—Tuesday. Election Day, holiday.
- Nov. 15—Tuesday. Meeting of University Council.
- Nov. 24—Thursday  
to
- Nov. 26—Saturday, inclusive. Thanksgiving Day holidays.
- Dec. 15—Thursday. Last day for notifying the Dean of the choice of subjects for graduation theses.
- Dec. 24—Saturday  
to
- 1905—Jan. 7—Saturday, inclusive. Christmas holidays.
- Jan. 25—Wednesday. Mid-year examinations begin.
- Feb. 4—Saturday. First half-year ends.
- Feb. 6—Monday. Second half-year begins.
- Feb. 21—Tuesday. Meeting of University Council.
- Feb. 22—Wednesday. Washington's Birthday, holiday.
- April 1—Saturday. Last day for filing applications for scholarships.

- April 3—Monday. Last day for handing in graduation theses.  
April 18—Tuesday. Meeting of University Council.  
April 20—Thursday  
to  
April 24—Monday, inclusive. Easter holidays.  
May 24—Wednesday. Final examinations begin.  
May 27—Saturday. Meeting of the University Council.  
May 30—Tuesday. Memorial Day, holiday.  
June 5—Monday. Last day for filing lists of elective courses.  
June 9—Friday. Class day.  
June 11—Sunday. Baccalaureate Sermon.  
June 14—Wednesday. Commencement Day.  
June 19—Monday. Examinations of the College Entrance Examination Board begin. For dates for filing applications see Document No. 11, issued by the Board, Post-Office Sub-Station 84, New York City, N. Y.  
Aug. 30—Wednesday. Last day for filing applications for delinquent examinations.  
Sept. 11—Monday. Last day for filing applications for September entrance examinations by candidates for admission.  
Sept. 18—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.  
Sept. 20—Wednesday. Registration begins.  
Sept. 26—Tuesday. Registration for students previously matriculated ceases. Later applications received only upon payment of an additional fee of \$5.  
Sept. 27—Wednesday. First half-year, 17th year, begins. Registration for students matriculating for the first time ceases. Later applications received only upon payment of an additional fee of \$5.



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